



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/869,098	09/20/2001	Yukio Toyoda	46342/56000	9857

7590 04/07/2005

David G Conlin  
EDWARDS & ANGELL, LLP  
Intellectual Property Practice Group  
P.O. Box 9169  
Boston, MA 02209

EXAMINER
----------

LEFFERS JR, GERALD G

ART UNIT	PAPER NUMBER
----------	--------------

1636

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/869,098

Applicant(s)

TOYODA ET AL.

Examiner

Gerald G. Leffers Jr., PhD

Art Unit

1636

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8, 11, 15 and 16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 11, 15 and 16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: Exhibits A-H

Art Unit: 1636

### **DETAILED ACTION**

Receipt is acknowledged of an amendment, filed 12/22/2004, in which several claims were amended (claims 1-4, 6, 8 & 11) and in which new claims were added (claims 15-16). Claims 1-8, 11, 15-16 are pending in the instant application.

Any rejection of record in the previous office action mailed on 8/24/2004 not addressed herein is withdrawn. This action is not final due to new grounds of rejection presented herein that were not necessitated by applicants' amendment of the claims in the response filed 12/22/2004.

### ***Specification***

The amendment filed 12/22/2004 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material that is not supported by the original disclosure is as follows: incorporation by reference of Japanese application 10-366719. Applicants have properly claimed priority to the Japanese application in the originally filed Oath. There was, however, no incorporation by reference of the entire foreign document in the originally filed papers. Thus, it is impermissible new matter to incorporate the entirety of the foreign reference at this point in prosecution. Further, it is improper and unnecessary to incorporate by reference the teachings of the international application for which the instant application is the national stage (e.g. see M.P.E.P. 1893.03(c)).

Art Unit: 1636

Applicant is required to cancel the new matter in the reply to this Office Action. It would be remedial to amend the specification to delete the phrase "the disclosures of all of which are incorporated herein by reference."

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter that the applicant regards as his invention.

Claims 1-8, 11 & 15-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

**The following are new rejections.**

Claims 2-3 are vague and indefinite in that the metes and bounds of the phrase "wherein the regulator sequence is" are unclear. It is unclear whether the term "is" is necessarily closed language or not. It would be remedial to amend the claim to include language that is explicitly open (e.g. comprising) or closed (e.g. consisting of) with regard to the presence of additional elements.

Claim 4 is vague and indefinite in that the metes and bounds of the phrase "or a fragment thereof" are unclear. It is unclear if the term refers to the base sequence comprising nucleotides 1-2270 of SEQ ID NO: 1 or solely refers to nucleotides 1-2270 of SEQ ID NO: 1.

Claim 5 recites the limitation of a recombinant vector "containing the DNA described in claim 1". There is no clear and positive prior antecedent basis for the term "the DNA described in claim 1" since there are several different DNAs described in the claim (e.g. the DNA



Art Unit: 1636

sequences recited in parts (a)-(d)). In addition, the term “containing” is not explicitly defined in the instant specification and it is not clear whether the term is meant to be open (e.g. comprising) or closed language (e.g. consisting of), making the metes and bounds of the DNA claimed unclear. It would be remedial to amend the claim to include language that is explicitly open (e.g. comprising) or closed (e.g. consisting of) with regard to the presence of additional elements.

Claim 8 is vague and indefinite in that the metes and bounds of the phrase “method for screening for a compound....characterized by measuring and comparing” are not clear. It is unclear as the claim is currently written whether one necessarily performs the recited positive action steps or not. It would be remedial to amend the claim language to recite a “method for screening for a compound....comprising measuring and comparing”.

There is no clear and positive prior antecedent basis in claim 11 for the term “the UCP-2 promoter sequence”. Nor are the metes and bounds of this term clear as no particular sequence is disclosed in the specification as being “the” UCP-2 promoter sequence and there does not appear to be such a canonical sequence disclosed in the art.

**The following rejections are maintained for reasons of record in the office action mailed 8/24/04, and which are repeated below.**

Claim 1 recites the limitation of an isolated DNA “containing” a regulator sequence. The term “containing” is not explicitly defined in the instant specification and it is not clear whether the term is meant to be open (e.g. comprising) or closed language (e.g. consisting of), making the metes and bounds of the DNA claimed unclear. It would be remedial to amend the claim to

Art Unit: 1636

include language that is explicitly open (e.g. comprising) or closed (e.g. consisting of) with regard to the presence of additional elements.

Claim 1 lacks an article (e.g. "a" or "the") prior to the term "uncoupling protein-2 (UCP-2) promoter region" in line 1. The lack of such an article prior to the term makes it unclear as to how many UCP-2 promoter regions are to be present in the claimed nucleic acid.

Claim 1 is vague and indefinite in that the metes and bounds of the phrase "wherein the regulator sequence is a sequence selected from" are unclear. It is unclear whether the term "is" is necessarily closed language or not. It would be remedial to amend the claim to include language that is explicitly open (e.g. comprising) or closed (e.g. consisting of) with regard to the presence of additional elements.

***Response to Arguments/112 2<sup>nd</sup> Paragraph Rejections for Claim 1***

Applicant's arguments filed 12/22/2004 have been fully considered but they are not persuasive. The response essentially argues that the amendments to the claim obviate the outstanding grounds of rejection. For the rejections indicated above, the specific terms have not been amended and the metes and bounds of these terms have not been made clear by the amendment.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 11 & 15-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter that was not

Art Unit: 1636

described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. **This is a new rejection necessitated by the amendment of the claims in the response filed 12/22/2004. This is a New Matter rejection.**

Claim 11 has been amended to broadly recite new limitations with regard to the constituent parts of a kit including: a cell culture medium, a cell differentiation medium and a plasmid for measurement of UCP-2 promoter activity. Claim 11(a) is broad in that it recites a culture medium comprising DMEM supplemented with *any* concentration of fetal calf serum. Claim 11(b) is broad in that it recites a cell differentiation medium comprising DMEM supplemented with *any* concentration of rabbit serum. Claim 11(c) is broad in that it recites that the pGL-3-basic plasmid carries “the” UCP-2 promoter sequence. Claim 11(d) recites a host cell line “comprising” an MG-63 cell line.

The portion of the specification pointed to by applicants’ response as providing support for the amendments to claim 11 and for new claims 15-16 recites a very specific composition for the claimed kit that is narrower in scope than what is recited in claims 11, 15 & 16 (e.g. see pages 15-17 of the instant specification). For example, the cell culture medium is described as DMEM supplemented with 10% fetal calf serum. The cell differentiation medium is described as DMEM supplemented with 5% rabbit serum. The pGL3-basic plasmid is described as comprising a UCP-2 promoter sequence of the invention operatively linked to a structural gene. The host cell line is described as being MG-63 cells. The specific example pointed to by applicants’ response only provides support for the very specific example and does not provide support for claiming the components of the kit more broadly. For example, there is no support

Art Unit: 1636

for claiming literally any percentage of FCS or rabbit serum in the cell culture or differentiation media. There is no support in the cited section for claiming “the” UCP-2 promoter as no such canonical promoter has been defined in the specification. There is no support in the cited portion of the specification for claiming a cell line “comprising” an MG-63 cell line. Nor can the examiner find implicit or literal support in the remainder of the originally filed specification and claims for the newly added subject matter cited above. Therefore, each of the newly added limitations is impermissible New Matter.

Claims 1-8, 11, 15 & 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. **This is a new rejection based upon the grounds that there is insufficient description of the broad genus of the nucleic acids encompassed by the terms “uncoupling protein-2 (UCP-2) promoter region” or “the UCP-2 promoter sequence” to reasonably convey to the skilled artisan that applicants had possession of the broadly claimed invention at the time of filing.**

Claim 1 recites the term “uncoupling protein-2 (UCP-2) promoter region” and is directed to an isolated DNA comprising the UCP-2 region wherein the region comprises particular enhancer sequences (e.g. PPRE, C/EBP, GRE and MyoD-binding). Claim 11 recites the limitation of a reporter plasmid (i.e. pGL3-basic) comprising “the UCP-2 promoter sequence”. While the instant specification discloses a nucleic acid sequence (SEQ ID NO: 1) that apparently

Art Unit: 1636

comprises UCP-2 promoter activity, it does not disclose this sequence as setting the boundaries for what is considered the human UCP-2 promoter sequence. Moreover, there is no limitation in the rejected claims that the cited terms are limited to the human UCP-2 promoter, even if such boundaries were clearly defined in the instant specification for the human promoter sequence. While claim 4 recites that the isolated DNA comprises a UCP-2 promoter region comprising nucleotides 1-2270 of SEQ ID NO: 1, it also encompasses embodiments comprising only a fragment of nucleotides 1-2270 of SEQ ID NO: 1. A fragment of SEQ ID NO: 1 can be interpreted as being as small as a single nucleotide. Thus, the rejected claims read on an extremely large number of different nucleic acid sequences obtained from many different sources that are linked to regulation of expression of the uncoupling protein-2 gene.

The instant specification is directed to the characterization of the ~2.3 kb hUCP-2 promoter fragment described by SEQ ID NO: 1 from nucleotides 1-2270. Very short sequences within this fragment were identified as well-known binding sites for different transcription regulators (e.g. the specifically recited oligonucleotide sequences recited in claim 1). Deletion constructs comprising portions of this region were made and the reporter gene activity determined (e.g. see Figure 9 & Example 4 at pages 25-26 of the instant specification). An ~70% increase in UCP-2 promoter activity as observed upon loss of the PPRE element at nucleotides 284-296 of SEQ ID NO: 1. However, upon further deletion until the two C/EBP sites at nucleotides 1316-1320 and 1364-1368 were lost, UCP-2 activity decreased by ~30%. Upon deletion of a further 290 nucleotides downstream, UCP-2 promoter activity was lost. Thus, the instant specification does provide some data with regard to the basis organization and functional characteristics of the human UCP-2 promoter region described by nucleotides 1-2270

Art Unit: 1636

of SEQ ID NO: 1. On the other hand, there is no basis provided by the instant specification for one of skill in the art to envision what other sequences upstream from the described region might play a role in UCP-2 expression. No basis is provided by the instant specification for the skilled artisan to extrapolate these findings to species other than humans (e.g. whale, mouse, horse, etc.).

The UCP-2 sequence described by nucleotides 1-2270 of SEQ ID NO: 1 appears to have not been described in any great detail in the art at the time of filing. For example, the prior art does not appear to have taught that the specifically recited regulatory elements of claim 1 were known to be associated with any other known UCP-2 promoter sequence (e.g. murine). Thus, the prior art fails to offset the deficiencies of the instant specification with regard to a basis for the skilled artisan to reliably envision other embodiments of the claimed UCP-2 promoter sequence.

Given the enormous genus of UCP-2 promoter sequences encompassed by the rejected claims and the lack of any basis in the prior art or instant specification to envision other UCP-2 promoter sequences encompassed by the claims, the skilled artisan would not have been able to envision a sufficient number of specific embodiments of such UCP-2 sequences so as to describe the broadly claimed genus of such promoter sequences. Therefore, the skilled artisan would reasonably have concluded applicants were not in possession of the broadly claimed invention.

### ***Claim Rejections - 35 USC § 102***

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 1636

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Surwit et al (WO 98/31396; see the entire PCT application). **This rejection is maintained for reasons of record in the previous office action and which are repeated below.**

The Surwit et al application teaches the identification and cloning of nucleic acid sequences encoding human uncoupling protein 2 (hUCP-2), 5' sequences controlling the expression of hUCP-2 as well as methods of using the regulator sequences to identify modulators of hUCP-2 expression. For example, the application teaches the identification of a human BAC clone comprising approximately 20 kb of human sequence which the practitioners believe comprises the entire gene and entire promoter (hUCP2.BAC deposited with the ATCC; e.g. see pages 16-17). Further, the application teaches the isolation of a lambda EMBL3 phage comprising ~14 kb of human sequences. This clone comprises all 8 exons of the human UCP-2 gene, as well as a minimum of 3 kb of DNA upstream of the putative +1 site (e.g. page 32). The application teaches methods of screening compounds for the ability to modulate (e.g. increase or inhibit) the activity or expression of UCP-2. Such methods can be performed *in vivo* or *in vitro* using cells expressing the human UCP-2 gene (or cells expressing a reporter sequence operatively linked to the UCP-2 regulatory sequences) that are incubated in the presence and absence of test compounds and the level of expression in each case determined (e.g. page 19, lines 2-18). As indicated above, the term "cell differentiation medium" is not clearly and explicitly defined in the instant specification and can thus be read broadly to encompass any media used to culture any of the types of cells taught by Surwit et al.

Given the size of the genomic clones obtained by the inventors of the Surwit et al application (e.g. at least 3 kb upstream of the transcription initiation site) and the fact that the

Art Unit: 1636

sequences recited in the recent claims are all within ~2.2 kb of the initiation site (e.g. see amended Figure 4 of the instant specification), it is reasonable to expect that the clones obtained by Surwit et al necessarily comprise the specific sequences recited in rejected claims 1-8.

Because the Office does not have the facilities for examining and comparing the applicants' product with the products of the prior art, the burden is on the applicants to show a novel or unobvious difference between the claimed products and the products of the prior art (e.g. that the products of the prior art do not possess the same material structural and functional characteristics of the claimed product). See *in re Best*, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977).

***Response to Arguments/102(b) Rejections Over Surwit et al***

Applicant's arguments filed 12/22/2004 have been fully considered but they are not persuasive. The response essentially argues that: **1)** the UCP-2 promoter obtained by Surwit et al is only partially disclosed, **2)** only four regions of the clone comprising the promoter obtained by Surwit et al were sequenced and the one sequence that appears to overlap with applicants' sequence is not identical to, and has "a certain degree of variation" from, applicants' sequence, **3)** the first nucleotide of Sequence No. 2 of Surwit et al appears to correspond to about the 1730<sup>th</sup> nucleotide of SEQ ID NO: 1 of the instant application, **4)** Sequence No. 1 of Surwit et al appears to be upstream of SEQ ID NO: 1 of the instant application, **5)** the regulatory sequences specifically recited in Claim 1 lie in between Sequence Nos. 1 & 2 disclosed by Surwit et al and are not described, **6)** it is impossible to consider the undisclosed sequence between Sequence Nos. 1 & 2 of Surwit et al, **7)** the discrepancy between the disclosed portion of Surwit et al and



Art Unit: 1636

the instant disclosure make it likely that the specifically recited sequences are not present in the clone disclosed by Surwit et al, 8) Surwit et al fails to suggest or recite the specific regulatory sequences recited in claim 1, much less their respective classification, 9) requiring applicants to obtain one or more cell lines disclosed in Surwit et al, isolate, clone and sequence the DNA in order to compare it with applicants' DNA is unduly burdensome, 10) Enzo is intended to allow an applicant to comply with the requirements of 112 1<sup>st</sup> paragraph, but is not intended to allow the deposited material to be used as prior art against a third party, 11) the Patent Office can make the comparison as the claim is directed to a sequence rather than a cell since it is equipped to compare sequences (e.g. if Surwit et al is filed in the U.S., then a copy of the sequence listing should be available for comparison), 12) it is easier and cheaper for the Office to do the comparison than for applicant to go to the trouble of obtaining the cell taught by Surwit et al and determining the relevant sequence in question, and 13) the date of effectiveness against a third party of the portion of the sequence listing not disclosed in the published PCT application should not be prior than the date of the submission of the undisclosed portion of the sequence listing.

The rejected claims are directed to a nucleic acid that comprises a UCP-2 promoter having the specifically recited binding elements of claim 1, recombinant vectors comprising the nucleic acid and host cells comprising the recombinant vectors. It is the examiner's contention, based on the reasons given above, that the clones taught by Surwit et al would necessarily comprise at least one of the recited binding sites. The date that the sequence for the uncharacterized region that corresponds to applicants' claims is disclosed is irrelevant so long as Surwit et al were enabled for and had possession of the particular clones. There is nothing the examiner is aware of in the case law or in the statutes that says that the clones obtained by Surwit

Art Unit: 1636

et al had to be deposited in order for the examiner to be able to use them as art, or conversely, that the deposited material cannot be used as art. As the response correctly points out, the deposited material satisfies the requirements of 112 1<sup>st</sup> paragraph with regard to enablement and description. With regard to the observation that there is a “certain degree” of variance between the disclosed sequences taught by Surwit et al and the sequences disclosed in the instant specification, the location and degree of variance is never described in applicants’ response, making it difficult to extrapolate that variance to the regions specifically recited in the rejected claims. Moreover, there is reason to expect that while there might be variance in the broad region of the nucleic acid sequence not explicitly disclosed by Surwit et al from applicants’ own data, this variance is actually unlikely to extend into the specifically recited enhancer sequences described by applicants. These sites are very short sequences that are extraordinarily well conserved across multiple different types of genes obtained from many different animal species (e.g. as evidence of this conservation of sequence, see the attached sequence search results for sequences described within issued patents; Exhibits A-H). Further, applicants’ own data suggests that at least three of the sites actually do play a role in regulation of UCP-2 expression (e.g. Example 4), indicating that those particular enhancer sites are important to UCP-2 gene regulation and are, therefore, even more likely to be conserved. It is exceedingly unlikely, given the facts outlined above and this conservation in sequence across species for many very different genes, that the specifically recited enhancer sites are not present in the clones disclosed by Surwit et al. Thus, one of skill in the art would necessarily expect that the deposited material would meet the structural/functional limitations for the UCP-2 promoter regions of the rejected claims.

Art Unit: 1636

The teachings of Surwit et al (WO 98/31396 A1) are also disclosed in U.S. 2003/0119775 A1. The U.S. application does not appear to comprise a sequence listing that discloses the relevant sequences so that the examiner could do the comparison for applicant. The examiner would be glad to do so if it were possible. However, arguments directed to an undue burden placed on applicants in independently determining the sequence of the clones disclosed by Surwit et al are irrelevant. Applicants' response has not effectively rebutted the examiner's argument that one would necessarily expect the clones disclosed by Surwit et al to possess the recited structural and functional characteristics. As indicated above, the Office does not have the facilities for examining and comparing the applicants' product with the products of the prior art, and the burden is on the applicants to show a novel or unobvious difference between the claimed products and the products of the prior art (e.g. that the products of the prior art do not possess the same material structural and functional characteristics of the claimed product). See in re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977).

### *Conclusion*

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gerald G. Leffers Jr., PhD whose telephone number is (571) 272-0772. The examiner can normally be reached on 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel can be reached on (571) 272-0781. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1636

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gerald G Leffers Jr., PhD  
Primary Examiner  
Art Unit 1636

ggl



**GERRY LEFFERS**  
**PRIMARY EXAMINER**

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 43.5167 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098A-1\_COPY\_1692\_1698

Perfect score: 7

Sequence: 1 tcgacag 7

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Issued Patents NA:\*

- 1: /cgn2\_6/ptodata/2/ina/5A COMB.seq.\*
- 2: /cgn2\_6/ptodata/2/ina/5B COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PCRUS COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfileseq1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	7	100.0	11	2	US-08-458-733B-6
2	7	100.0	11	2	US-08-458-733B-8
3	7	100.0	11	6	5459039-5
4	7	100.0	11	6	5459039-6
5	7	100.0	12	1	US-08-030-335-11
6	7	100.0	12	1	US-08-154-019-18
7	7	100.0	12	1	US-08-461-333-18
8	7	100.0	12	2	US-08-547-214-17
9	7	100.0	12	2	US-08-480-020B-11
10	7	100.0	12	2	US-08-910-618-11
11	7	100.0	12	2	US-08-663-823B-17
12	7	100.0	12	3	US-08-464-167-18
13	7	100.0	12	3	US-09-158-313-18
14	7	100.0	12	3	US-08-484-173A-21
15	7	100.0	12	3	US-08-484-408A-21
16	7	100.0	12	3	US-08-476-798-18
17	7	100.0	12	3	US-08-942-406-17
18	7	100.0	12	3	US-09-322-617-17
19	7	100.0	12	3	US-08-910-322-11
20	7	100.0	12	4	US-08-484-939A-11
21	7	100.0	12	4	US-09-203-231B-21
22	7	100.0	12	4	US-09-641-318-19
23	7	100.0	12	4	US-09-751-561-17
24	7	100.0	12	4	US-09-724-385-17
25	7	100.0	12	4	US-09-757-528-17
26	7	100.0	12	4	US-09-631-349A-10
27	7	100.0	12	4	US-09-384-472-11

14	1	US-08-541-632-3	7	100.0	28	C 29	Sequence 3, Appli
14	4	US-08-535-249-88	7	100.0	C 30	Sequence 88, Appl	
14	4	US-09-600-770A-80	7	100.0	C 31	Sequence 80, Appl	
14	6	5427929-20	7	100.0	C 32	Patent No. 5427929	
15	1	US-08-182-968A-443	7	100.0	C 33	Sequence 443, App	
15	1	US-08-363-240A-563	7	100.0	C 34	Sequence 563, App	
15	1	US-08-363-240A-564	7	100.0	C 35	Sequence 564, App	
15	1	US-08-363-240A-565	7	100.0	C 36	Sequence 565, App	
15	2	US-08-774-306A-443	7	100.0	C 37	Sequence 443, App	
15	3	US-09-064-156A-443	7	100.0	C 38	Sequence 443, App	
16	3	US-08-954-210-36	7	100.0	C 39	Sequence 36, Appl	
16	4	US-08-535-249-89	7	100.0	C 40	Sequence 89, Appl	
16	4	US-09-431-419A-36	7	100.0	C 41	Sequence 36, Appl	
17	1	US-08-363-585-1	7	100.0	C 42	Sequence 1, Appli	
17	1	US-08-485-689-40	7	100.0	C 43	Sequence 40, Appl	
17	2	US-08-476-021A-40	7	100.0	C 44	Sequence 40, Appl	
17	2	US-08-478-608B-40	7	100.0	C 45	Sequence 40, Appl	
17	3	US-08-985-162-421	7	100.0	C 46	Sequence 421, App	
17	3	US-08-985-162-422	7	100.0	C 47	Sequence 422, App	
17	3	US-08-463-903-90	7	100.0	C 48	Sequence 90, Appl	
17	3	US-08-476-423A-40	7	100.0	C 49	Sequence 40, Appl	
17	4	US-07-935-695-90	7	100.0	C 50	Sequence 90, Appl	
17	4	US-08-679-645-805	7	100.0	C 51	Sequence 805, App	
17	4	US-08-679-645-807	7	100.0	C 52	Sequence 807, App	
17	4	US-09-149-727-14	7	100.0	C 53	Sequence 14, Appl	
17	4	US-09-401-063-421	7	100.0	C 54	Sequence 421, App	
17	4	US-09-401-063-422	7	100.0	C 55	Sequence 422, App	
17	4	US-09-747-391-175	7	100.0	C 56	Sequence 175, App	
17	4	US-09-747-391-203	7	100.0	C 57	Sequence 203, App	
17	4	US-09-866-108A-2789	7	100.0	C 58	Sequence 2789, Ap	
17	4	US-09-866-108A-2790	7	100.0	C 59	Sequence 2790, Ap	
17	4	US-09-866-108A-2791	7	100.0	C 60	Sequence 2791, Ap	
17	4	US-09-866-108A-2792	7	100.0	C 61	Sequence 2792, Ap	
17	4	US-09-866-108A-2793	7	100.0	C 62	Sequence 2793, Ap	
17	4	US-09-866-108A-2794	7	100.0	C 63	Sequence 2794, Ap	
17	4	US-09-866-108A-2795	7	100.0	C 64	Sequence 2795, Ap	
17	4	US-09-866-108A-2796	7	100.0	C 65	Sequence 2796, Ap	
17	4	US-09-866-108A-2797	7	100.0	C 66	Sequence 2797, Ap	
17	4	US-09-866-108A-2798	7	100.0	C 67	Sequence 2798, Ap	
17	4	US-09-866-108A-2799	7	100.0	C 68	Sequence 2799, Ap	
17	4	US-09-866-108A-9291	7	100.0	C 69	Sequence 9291, Ap	
17	4	US-09-866-108A-9292	7	100.0	C 70	Sequence 9292, Ap	
17	4	US-09-866-108A-9293	7	100.0	C 71	Sequence 9293, Ap	
17	4	US-09-866-108A-9294	7	100.0	C 72	Sequence 9294, Ap	
17	4	US-09-866-108A-9295	7	100.0	C 73	Sequence 9295, Ap	
17	4	US-09-866-108A-9296	7	100.0	C 74	Sequence 9296, Ap	
17	4	US-09-866-108A-9297	7	100.0	C 75	Sequence 9297, Ap	
17	4	US-09-866-108A-9298	7	100.0	C 76	Sequence 9298, Ap	
17	4	US-09-866-108A-9299	7	100.0	C 77	Sequence 9299, Ap	
17	4	US-09-866-108A-9300	7	100.0	C 78	Sequence 9300, Ap	
17	4	US-09-866-108A-9301	7	100.0	C 79	Sequence 9301, Ap	
17	4	US-09-866-108A-9571	7	100.0	C 80	Sequence 9571, Ap	
17	4	US-09-866-108A-9572	7	100.0	C 81	Sequence 9572, Ap	
17	4	US-09-866-108A-9573	7	100.0	C 82	Sequence 9573, Ap	
17	4	US-09-866-108A-9574	7	100.0	C 83	Sequence 9574, Ap	
17	4	US-09-866-108A-9575	7	100.0	C 84	Sequence 9575, Ap	
17	4	US-09-866-108A-9576	7	100.0	C 85	Sequence 9576, Ap	
17	4	US-09-866-108A-9577	7	100.0	C 86	Sequence 9577, Ap	
17	4	US-09-866-108A-9578	7	100.0	C 87	Sequence 9578, Ap	
17	4	US-09-866-108A-9579	7	100.0	C 88	Sequence 9579, Ap	
17	4	US-09-866-108A-9580	7	100.0	C 89	Sequence 9580, Ap	
17	4	US-09-866-108A-9581	7	100.0	C 90	Sequence 9581, Ap	
18	1	US-10-028-772-1	7	100.0	C 91	Sequence 1, Appli	
18	1	US-10-028-771-1	7	100.0	C 92	Sequence 1, Appli	
18	1	US-10-029-284-1	7	100.0	C 93	Sequence 20, Appl	
18	1	US-08-151-574-20	7	100.0	C 94	Sequence 6, Appli	
18	1	US-08-211-833-6	7	100.0	C 95	Sequence 4, Appli	
18	1	US-08-228-303-4	7	100.0	C 96	Sequence 6, Appli	
18	1	US-08-434-718-6	7	100.0	C 97	Sequence 1189, Ap	
18	1	US-08-363-240A-1189	7	100.0	C 98	Sequence 1190, Ap	
18	1	US-08-363-240A-1190	7	100.0	C 99	Sequence 4, Appli	
18	1	US-08-422-424B-4	7	100.0	C 100	Sequence 4, Appli	
18	1	US-08-421-996A-4	7	100.0			

09/869,098 Exh.b.7 A

c 101 7 100.0 18 2 US-08-488-402A-75 Sequence 75, Appl  
c 102 7 100.0 18 2 US-08-484-552A-75 Sequence 75, Appl  
c 103 7 100.0 18 2 US-08-485-683-41 Sequence 41, Appl  
c 104 7 100.0 18 2 US-08-476-021A-41 Sequence 41, Appl  
105 7 100.0 18 2 US-08-419-448-20 Sequence 20, Appl  
106 7 100.0 18 2 US-07-989-847-27 Sequence 27, Appl  
c 107 7 100.0 18 2 US-08-478-608B-41 Sequence 41, Appl  
c 108 7 100.0 18 2 US-08-460-751-22 Sequence 22, Appl  
c 109 7 100.0 18 2 US-09-256-496-79 Sequence 79, Appl  
110 7 100.0 18 3 US-09-357-072-13 Sequence 13, Appl  
c 111 7 100.0 18 3 US-09-357-072-23 Sequence 23, Appl  
112 7 100.0 18 3 US-08-469-411-27 Sequence 27, Appl  
c 113 7 100.0 18 3 US-08-476-422A-41 Sequence 41, Appl  
114 7 100.0 18 4 US-09-233-510-20 Sequence 20, Appl  
115 7 100.0 18 4 US-09-149-727-13 Sequence 13, Appl  
116 7 100.0 18 4 US-09-513-783A-117 Sequence 117, Appl  
c 117 7 100.0 18 4 US-08-857-636-28 Sequence 28, Appl  
c 118 7 100.0 18 4 US-09-780-601A-27 Sequence 27, Appl  
c 119 7 100.0 18 4 US-09-559-306-52 Sequence 52, Appl  
c 120 7 100.0 18 4 US-09-559-306-53 Sequence 53, Appl  
c 121 7 100.0 18 4 US-09-559-306-54 Sequence 54, Appl  
c 122 7 100.0 18 4 US-09-559-306-55 Sequence 55, Appl  
c 123 7 100.0 18 4 US-09-747-391-199 Sequence 199, Appl  
c 124 7 100.0 18 4 US-09-747-391-201 Sequence 201, Appl  
c 125 7 100.0 18 4 US-09-747-391-204 Sequence 204, Appl  
c 126 7 100.0 18 5 PCT-US96-09472-75 Sequence 75, Appl  
c 127 7 100.0 19 3 US-08-577-081A-63 Sequence 63, Appl  
c 128 7 100.0 19 3 US-09-488-671-4 Sequence 4, Appl  
c 129 7 100.0 19 4 US-09-342-681C-58 Sequence 58, Appl  
c 130 7 100.0 19 4 US-09-423-978-7700 Sequence 7700, Appl  
c 131 7 100.0 19 4 US-09-747-391-200 Sequence 200, Appl  
c 132 7 100.0 19 4 US-09-747-391-202 Sequence 202, Appl  
c 133 7 100.0 19 4 US-09-747-391-237 Sequence 237, Appl  
c 134 7 100.0 19 4 US-09-747-391-238 Sequence 238, Appl  
c 135 7 100.0 19 4 US-09-647-468-27 Sequence 27, Appl  
c 136 7 100.0 20 6 5169941-28 Patent No. 5169941  
c 137 7 100.0 20 1 US-07-841-653-19 Sequence 19, Appl  
c 138 7 100.0 20 1 US-07-665-960A-16 Sequence 16, Appl  
c 139 7 100.0 20 1 US-08-106-802-16 Sequence 16, Appl  
c 140 7 100.0 20 1 US-08-314-596-46 Sequence 46, Appl  
c 141 7 100.0 20 1 US-08-089-996-49 Sequence 49, Appl  
c 142 7 100.0 20 1 US-08-317-432A-18 Sequence 18, Appl  
c 143 7 100.0 20 1 US-08-535-248-4 Sequence 4, Appl  
c 144 7 100.0 20 1 US-08-110-691A-33 Sequence 33, Appl  
c 145 7 100.0 20 1 US-08-320-982-46 Sequence 46, Appl  
c 146 7 100.0 20 1 US-08-597-774-4 Sequence 4, Appl  
c 147 7 100.0 20 2 US-08-229-528-42 Sequence 42, Appl  
c 148 7 100.0 20 2 US-08-731-272A-9 Sequence 9, Appl  
c 149 7 100.0 20 2 US-08-557-128-36 Sequence 36, Appl  
c 150 7 100.0 20 2 US-08-853-807-27 Sequence 27, Appl  
c 151 7 100.0 20 2 US-08-478-178A-49 Sequence 49, Appl  
c 152 7 100.0 20 2 US-08-488-177-49 Sequence 49, Appl  
c 153 7 100.0 20 2 US-08-481-072A-49 Sequence 49, Appl  
c 154 7 100.0 20 2 US-08-664-336-49 Sequence 49, Appl  
c 155 7 100.0 20 2 US-08-931-072A-41 Sequence 41, Appl  
c 156 7 100.0 20 2 US-08-931-072A-42 Sequence 42, Appl  
c 157 7 100.0 20 2 US-08-958-642-10 Sequence 10, Appl  
c 158 7 100.0 20 2 US-08-481-066A-49 Sequence 49, Appl  
c 159 7 100.0 20 2 US-08-703-136-16 Sequence 16, Appl  
c 160 7 100.0 20 2 US-08-837-201C-94 Sequence 94, Appl  
c 161 7 100.0 20 3 US-09-357-072-62 Sequence 62, Appl  
c 162 7 100.0 20 3 US-09-357-072-69 Sequence 69, Appl  
c 163 7 100.0 20 3 US-08-578-615A-49 Sequence 49, Appl  
c 164 7 100.0 20 3 US-08-819-037-46 Sequence 46, Appl  
c 165 7 100.0 20 3 US-08-778-423A-10 Sequence 10, Appl  
c 166 7 100.0 20 3 US-09-358-685-28 Sequence 28, Appl  
c 167 7 100.0 20 3 US-09-428-219-10 Sequence 10, Appl  
c 168 7 100.0 20 3 US-09-177-249-323 Sequence 323, Appl  
c 169 7 100.0 20 3 US-08-483-511-70 Sequence 70, Appl  
c 170 7 100.0 20 4 US-09-364-416-94 Sequence 94, Appl  
c 171 7 100.0 20 4 US-08-955-565A-5 Sequence 5, Appl  
c 172 7 100.0 20 4 US-08-829-637A-49 Sequence 49, Appl  
c 173 7 100.0 20 4 US-09-658-687A-19 Sequence 19, Appl

20 4 US-09-088-274-20 Sequence 20, Appl  
20 4 US-09-045-940-46 Sequence 46, Appl  
20 4 US-09-470-443-26 Sequence 26, Appl  
20 4 US-09-470-443-40 Sequence 40, Appl  
20 4 US-09-254-322-49 Sequence 49, Appl  
20 4 US-10-025-139-49 Sequence 49, Appl  
c 180 7 100.0 20 4 US-09-501-612A-29 Sequence 29, Appl  
20 4 US-09-198-452A-2276 Sequence 2276, Appl  
20 4 US-09-198-452A-2632 Sequence 2632, Appl  
20 4 US-09-198-452A-3267 Sequence 3267, Appl  
20 4 US-09-198-452A-3519 Sequence 3519, Appl  
c 185 7 100.0 20 4 US-09-198-452A-3766 Sequence 3766, Appl  
20 4 US-09-198-452A-3818 Sequence 3818, Appl  
20 4 US-09-198-452A-4134 Sequence 4134, Appl  
20 4 US-09-198-452A-5927 Sequence 5927, Appl  
20 4 US-09-198-452A-6307 Sequence 6307, Appl  
20 4 US-09-198-452A-6438 Sequence 6438, Appl  
20 4 US-09-198-452A-6565 Sequence 6565, Appl  
20 4 US-09-198-452A-6734 Sequence 6734, Appl  
20 4 US-09-198-452A-6767 Sequence 6767, Appl  
20 4 US-09-081-385-13 Sequence 13, Appl  
20 4 US-09-703-399A-73 Sequence 73, Appl  
20 4 US-09-703-399A-74 Sequence 74, Appl  
20 4 US-09-033-936-23 Sequence 23, Appl  
20 4 US-09-747-391-236 Sequence 236, Appl  
20 4 US-09-747-391-239 Sequence 239, Appl  
20 4 US-09-737-452A-15 Sequence 15, Appl  
20 4 US-09-574-570-42 Sequence 42, Appl  
20 5 PCT-US93-02213-49 Sequence 49, Appl  
20 5 PCT-US94-07770-49 Sequence 49, Appl  
c 204 7 100.0 21 1 US-07-697-421-10 Sequence 10, Appl  
21 1 US-08-203-198-17 Sequence 17, Appl  
21 1 US-08-283-203-10 Sequence 10, Appl  
21 1 US-08-066-325-46 Sequence 46, Appl  
21 1 US-08-433-126A-241 Sequence 241, Appl  
21 1 US-08-317-432A-19 Sequence 19, Appl  
21 1 US-08-433-124A-241 Sequence 241, Appl  
21 1 US-08-110-691A-26 Sequence 26, Appl  
21 2 US-08-488-402A-71 Sequence 71, Appl  
21 2 US-08-484-552A-71 Sequence 71, Appl  
21 2 US-07-662-764D-10 Sequence 10, Appl  
21 3 US-08-577-081A-53 Sequence 53, Appl  
21 3 US-08-675-566-26 Sequence 26, Appl  
21 3 US-08-976-413A-241 Sequence 241, Appl  
21 3 US-08-290-995-6 Sequence 6, Appl  
21 3 US-08-872-757-5 Sequence 5, Appl  
21 4 US-09-397-168-70 Sequence 70, Appl  
21 4 US-09-206-898-20 Sequence 20, Appl  
21 4 US-09-600-770A-2 Sequence 2, Appl  
21 4 US-09-600-770A-77 Sequence 77, Appl  
21 4 US-09-855-470-3 Sequence 3, Appl  
21 4 US-09-216-393B-302 Sequence 302, Appl  
21 4 US-09-422-978-3979 Sequence 3979, Appl  
21 4 US-09-850-048A-5 Sequence 5, Appl  
21 4 US-09-193-390A-10 Sequence 10, Appl  
21 4 US-09-747-391-234 Sequence 234, Appl  
21 4 US-09-747-391-235 Sequence 235, Appl  
21 5 PCT-US96-06059-241 Sequence 241, Appl  
21 5 PCT-US96-09472-71 Sequence 71, Appl  
22 1 US-08-075-193-15 Sequence 15, Appl  
22 1 US-08-152-621-13 Sequence 13, Appl  
22 1 US-08-541-632-4 Sequence 4, Appl  
22 1 US-08-178-256-2 Sequence 2, Appl  
22 1 US-08-597-774-2 Sequence 2, Appl  
22 2 US-08-564-090A-15 Sequence 15, Appl  
22 3 US-08-947-965-39 Sequence 39, Appl  
22 4 US-09-194-679-14 Sequence 14, Appl  
22 4 US-09-594-075-10 Sequence 10, Appl  
22 5 PCT-US92-05035-13 Sequence 13, Appl  
22 5 PCT-US94-06698-15 Sequence 15, Appl  
23 1 US-08-466-033-120 Sequence 120, Appl  
23 1 US-08-444-733-120 Sequence 120, Appl  
23 2 US-08-464-134-120 Sequence 120, Appl

c 174 7 100.0 7 174 Sequence 75, Appl  
c 175 7 100.0 7 175 Sequence 75, Appl  
c 176 7 100.0 7 176 Sequence 41, Appl  
c 177 7 100.0 7 177 Sequence 41, Appl  
c 178 7 100.0 7 178 Sequence 20, Appl  
c 179 7 100.0 7 179 Sequence 27, Appl  
c 180 7 100.0 7 180 Sequence 41, Appl  
c 181 7 100.0 7 181 Sequence 22, Appl  
c 182 7 100.0 7 182 Sequence 79, Appl  
c 183 7 100.0 7 183 Sequence 13, Appl  
c 184 7 100.0 7 184 Sequence 23, Appl  
c 185 7 100.0 7 185 Sequence 27, Appl  
c 186 7 100.0 7 186 Sequence 41, Appl  
c 187 7 100.0 7 187 Sequence 20, Appl  
c 188 7 100.0 7 188 Sequence 13, Appl  
c 189 7 100.0 7 189 Sequence 117, Appl  
c 190 7 100.0 7 190 Sequence 28, Appl  
c 191 7 100.0 7 191 Sequence 27, Appl  
c 192 7 100.0 7 192 Sequence 52, Appl  
c 193 7 100.0 7 193 Sequence 53, Appl  
c 194 7 100.0 7 194 Sequence 54, Appl  
c 195 7 100.0 7 195 Sequence 55, Appl  
c 196 7 100.0 7 196 Sequence 199, Appl  
c 197 7 100.0 7 197 Sequence 201, Appl  
c 198 7 100.0 7 198 Sequence 204, Appl  
c 199 7 100.0 7 199 Sequence 75, Appl  
c 200 7 100.0 7 200 Sequence 63, Appl  
c 201 7 100.0 7 201 Sequence 4, Appl  
c 202 7 100.0 7 202 Sequence 58, Appl  
c 203 7 100.0 7 203 Sequence 7700, Appl  
c 204 7 100.0 7 204 Sequence 200, Appl  
c 205 7 100.0 7 205 Sequence 202, Appl  
c 206 7 100.0 7 206 Sequence 237, Appl  
c 207 7 100.0 7 207 Sequence 238, Appl  
c 208 7 100.0 7 208 Sequence 27, Appl  
c 209 7 100.0 7 209 Patent No. 5169941  
c 210 7 100.0 7 210 Sequence 19, Appl  
c 211 7 100.0 7 211 Sequence 16, Appl  
c 212 7 100.0 7 212 Sequence 16, Appl  
c 213 7 100.0 7 213 Sequence 46, Appl  
c 214 7 100.0 7 214 Sequence 49, Appl  
c 215 7 100.0 7 215 Sequence 18, Appl  
c 216 7 100.0 7 216 Sequence 4, Appl  
c 217 7 100.0 7 217 Sequence 33, Appl  
c 218 7 100.0 7 218 Sequence 46, Appl  
c 219 7 100.0 7 219 Sequence 4, Appl  
c 220 7 100.0 7 220 Sequence 42, Appl  
c 221 7 100.0 7 221 Sequence 9, Appl  
c 222 7 100.0 7 222 Sequence 36, Appl  
c 223 7 100.0 7 223 Sequence 27, Appl  
c 224 7 100.0 7 224 Sequence 49, Appl  
c 225 7 100.0 7 225 Sequence 49, Appl  
c 226 7 100.0 7 226 Sequence 49, Appl  
c 227 7 100.0 7 227 Sequence 49, Appl  
c 228 7 100.0 7 228 Sequence 41, Appl  
c 229 7 100.0 7 229 Sequence 42, Appl  
c 230 7 100.0 7 230 Sequence 10, Appl  
c 231 7 100.0 7 231 Sequence 49, Appl  
c 232 7 100.0 7 232 Sequence 16, Appl  
c 233 7 100.0 7 233 Sequence 94, Appl  
c 234 7 100.0 7 234 Sequence 62, Appl  
c 235 7 100.0 7 235 Sequence 69, Appl  
c 236 7 100.0 7 236 Sequence 49, Appl  
c 237 7 100.0 7 237 Sequence 46, Appl  
c 238 7 100.0 7 238 Sequence 10, Appl  
c 239 7 100.0 7 239 Sequence 28, Appl  
c 240 7 100.0 7 240 Sequence 10, Appl  
c 241 7 100.0 7 241 Sequence 323, Appl  
c 242 7 100.0 7 242 Sequence 70, Appl  
c 243 7 100.0 7 243 Sequence 94, Appl  
c 244 7 100.0 7 244 Sequence 5, Appl  
c 245 7 100.0 7 245 Sequence 49, Appl  
c 246 7 100.0 7 246 Sequence 19, Appl

C 247	7	100.0	23	2	US-08-461-361-120	Sequence 120, App	C 320	7	100.0	24	4	US-09-002-361-25	Sequence 25, Appl
C 248	7	100.0	23	2	US-08-485-910-120	Sequence 120, App	C 321	7	100.0	24	4	US-09-364-543-2	Sequence 2, Appli
C 249	7	100.0	23	2	US-08-927-855-59	Sequence 59, Appl	C 322	7	100.0	24	4	US-09-364-539-8	Sequence 8, Appli
C 250	7	100.0	23	2	US-08-927-855-61	Sequence 61, Appl	C 323	7	100.0	24	4	US-09-314-268-176	Sequence 176, App
C 251	7	100.0	23	3	US-08-577-081A-61	Sequence 61, Appl	C 324	7	100.0	24	4	US-09-355-700-39	Sequence 39, Appl
C 252	7	100.0	23	4	US-09-358-036-64	Sequence 64, Appl	C 325	7	100.0	24	4	US-09-557-034-50	Sequence 50, Appl
C 253	7	100.0	23	4	US-09-710-200-18	Sequence 18, Appl	C 326	7	100.0	24	4	US-09-941-964-46	Sequence 46, Appl
C 254	7	100.0	23	4	US-09-298-745-6	Sequence 6, Appli	C 327	7	100.0	24	4	US-09-163-025B-159	Sequence 159, App
C 255	7	100.0	23	4	US-09-474-178-10	Sequence 10, Appl	C 328	7	100.0	24	4	US-09-631-349A-9	Sequence 9, Appli
C 256	7	100.0	23	4	US-09-600-708A-42	Sequence 42, Appl	C 329	7	100.0	24	4	US-09-538-709-214	Sequence 214, App
C 257	7	100.0	23	4	US-09-975-408-18	Sequence 18, Appl	C 330	7	100.0	24	4	US-09-600-770A-43	Sequence 43, Appl
C 258	7	100.0	23	4	US-09-595-549-14	Sequence 14, Appl	C 331	7	100.0	24	4	US-09-600-770A-71	Sequence 71, Appl
C 259	7	100.0	23	4	US-09-595-549-14	Sequence 14, Appl	C 332	7	100.0	24	4	US-10-096-830-46	Sequence 46, Appl
C 260	7	100.0	24	1	US-08-105-761-3	Sequence 3, Appli	C 333	7	100.0	24	4	US-09-849-928-198	Sequence 198, App
C 261	7	100.0	24	1	US-08-058-299-1	Sequence 1, Appli	C 334	7	100.0	24	4	US-09-849-928-250	Sequence 250, App
C 262	7	100.0	24	1	US-07-945-291A-1	Sequence 1, Appli	C 335	7	100.0	24	4	US-10-037-282-159	Sequence 159, App
C 263	7	100.0	24	1	US-08-004-139B-7	Sequence 7, Appli	C 336	7	100.0	24	4	US-09-851-486-38	Sequence 38, Appl
C 264	7	100.0	24	1	US-08-456-923-15	Sequence 15, Appl	C 337	7	100.0	24	4	US-08-442-001C-28	Sequence 28, Appl
C 265	7	100.0	24	1	US-08-384-708A-97	Sequence 97, Appl	C 338	7	100.0	24	4	US-09-516-667-14	Sequence 14, Appl
C 266	7	100.0	24	1	US-08-488-212A-18	Sequence 18, Appl	C 339	7	100.0	24	4	US-10-096-830-46	Sequence 46, Appl
C 267	7	100.0	24	1	US-08-479-783A-38	Sequence 38, Appl	C 340	7	100.0	24	4	US-09-151-376-36	Sequence 36, Appl
C 268	7	100.0	24	1	US-08-479-725-38	Sequence 38, Appl	C 341	7	100.0	24	4	US-09-293-427-29	Sequence 29, Appl
C 269	7	100.0	24	1	US-08-433-126A-42	Sequence 42, Appl	C 342	7	100.0	24	4	US-09-293-427-42	Sequence 42, Appl
C 270	7	100.0	24	1	US-08-433-126A-140	Sequence 140, App	C 343	7	100.0	24	5	PCT-US92-11076-3	Sequence 3, Appli
C 271	7	100.0	24	1	US-08-423-383-61	Sequence 61, Appl	C 344	7	100.0	24	5	PCT-US95-09377-6	Sequence 6, Appli
C 272	7	100.0	24	1	US-08-618-693-38	Sequence 38, Appl	C 345	7	100.0	24	5	PCT-US96-06059-42	Sequence 42, Appl
C 273	7	100.0	24	1	US-08-447-172A-3	Sequence 3, Appli	C 346	7	100.0	24	5	PCT-US96-06059-140	Sequence 140, App
C 274	7	100.0	24	1	US-08-458-423A-51	Sequence 51, Appl	C 347	7	100.0	24	5	PCT-US96-08014-51	Sequence 51, Appl
C 275	7	100.0	24	1	US-08-458-424B-51	Sequence 51, Appl	C 348	7	100.0	24	5	PCT-US96-08014-127	Sequence 127, App
C 276	7	100.0	24	1	US-08-433-124A-42	Sequence 42, Appl	C 349	7	100.0	24	5	PCT-US96-09455A-198	Sequence 198, App
C 277	7	100.0	24	1	US-08-433-124A-140	Sequence 140, App	C 350	7	100.0	24	5	PCT-US96-09455A-250	Sequence 250, App
C 278	7	100.0	24	1	US-08-591-989-14	Sequence 14, Appl	C 351	7	100.0	24	5	PCT-US96-09472-66	Sequence 66, Appl
C 279	7	100.0	24	1	US-08-620-467A-28	Sequence 28, Appl	C 352	7	100.0	24	5	PCT-US96-09537-76	Sequence 76, Appl
C 280	7	100.0	24	1	US-08-499-048-4	Sequence 4, Appli	C 353	7	100.0	24	5	PCT-US96-09537-188	Sequence 188, App
C 281	7	100.0	24	1	US-08-499-048-5	Sequence 5, Appli	C 354	7	100.0	24	5	PCT-US96-10545A-7	Sequence 7, Appli
C 282	7	100.0	24	1	US-08-499-048-5	Sequence 5, Appli	C 355	7	100.0	24	6	5336598-17	Patent No. 5336598
C 283	7	100.0	24	1	US-08-447-169A-59	Sequence 59, Appl	C 356	7	100.0	25	1	US-08-057-184-9	Sequence 9, Appli
C 284	7	100.0	24	1	US-08-348-572-29	Sequence 29, Appl	C 357	7	100.0	25	1	US-08-057-184-10	Sequence 10, Appl
C 285	7	100.0	24	1	US-09-031-485-50	Sequence 50, Appl	C 358	7	100.0	25	1	US-08-434-823-10	Sequence 10, Appl
C 286	7	100.0	24	1	US-08-847-429A-50	Sequence 50, Appl	C 359	7	100.0	25	1	US-08-457-366-10	Sequence 10, Appl
C 287	7	100.0	24	2	US-08-437-353A-61	Sequence 61, Appl	C 360	7	100.0	25	1	US-08-110-691A-25	Sequence 25, Appl
C 288	7	100.0	24	2	US-08-811-492-7	Sequence 7, Appli	C 361	7	100.0	25	1	US-08-651-323A-11	Sequence 11, Appl
C 289	7	100.0	24	2	US-08-811-492-78	Sequence 78, Appl	C 362	7	100.0	25	2	US-08-859-998-713	Sequence 713, App
C 290	7	100.0	24	2	US-08-488-402A-66	Sequence 66, Appl	C 363	7	100.0	25	3	US-08-554-385-31	Sequence 31, Appl
C 291	7	100.0	24	2	US-08-233-012C-59	Sequence 59, Appl	C 364	7	100.0	25	3	US-08-963-121C-20	Sequence 20, Appl
C 292	7	100.0	24	2	US-08-484-552A-66	Sequence 66, Appl	C 365	7	100.0	25	3	US-09-433-694-4	Sequence 4, Appli
C 293	7	100.0	24	2	US-08-799-949-4	Sequence 4, Appli	C 366	7	100.0	25	3	US-09-318-739A-3	Sequence 3, Appli
C 294	7	100.0	24	2	US-08-669-753-30	Sequence 30, Appl	C 367	7	100.0	25	3	US-09-318-793A-6	Sequence 6, Appli
C 295	7	100.0	24	2	US-08-449-287-16	Sequence 16, Appl	C 368	7	100.0	25	3	US-09-462-844-7	Sequence 7, Appli
C 296	7	100.0	24	2	US-08-320-306-18	Sequence 18, Appl	C 369	7	100.0	25	4	US-09-543-513-20	Sequence 20, Appl
C 297	7	100.0	24	2	US-08-488-209B-18	Sequence 18, Appl	C 370	7	100.0	25	4	US-09-225-928-713	Sequence 713, App
C 298	7	100.0	24	2	US-08-408-011-18	Sequence 18, Appl	C 371	7	100.0	25	4	US-09-292-036-15	Sequence 15, Appl
C 299	7	100.0	24	2	US-08-477-527A-76	Sequence 76, Appl	C 372	7	100.0	25	4	US-09-346-655-13	Sequence 13, Appl
C 300	7	100.0	24	2	US-08-477-527A-188	Sequence 188, App	C 373	7	100.0	25	4	US-09-225-201B-713	Sequence 713, App
C 301	7	100.0	24	2	US-08-769-945C-14	Sequence 14, Appl	C 374	7	100.0	25	4	US-09-216-393B-200	Sequence 200, App
C 302	7	100.0	24	3	US-08-481-710-76	Sequence 76, Appl	C 375	7	100.0	25	4	US-09-344-510B-26	Sequence 26, Appl
C 303	7	100.0	24	3	US-08-481-710-188	Sequence 188, App	C 376	7	100.0	25	4	US-09-913-514-14	Sequence 14, Appl
C 304	7	100.0	24	3	US-09-065-474-50	Sequence 50, Appl	C 377	7	100.0	25	4	US-09-648-254-25	Sequence 25, Appl
C 305	7	100.0	24	3	US-08-559-205-17	Sequence 17, Appl	C 378	7	100.0	25	4	US-09-866-108A-5718	Sequence 5718, Ap
C 306	7	100.0	24	3	US-08-559-205-32	Sequence 32, Appl	C 379	7	100.0	25	4	US-09-866-108A-5719	Sequence 5719, Ap
C 307	7	100.0	24	3	US-08-854-764-6	Sequence 6, Appli	C 380	7	100.0	25	4	US-09-866-108A-5720	Sequence 5720, Ap
C 308	7	100.0	24	3	US-09-041-090B-29	Sequence 29, Appl	C 381	7	100.0	25	4	US-09-866-108A-5721	Sequence 5721, Ap
C 309	7	100.0	24	3	US-08-976-413A-42	Sequence 42, Appl	C 382	7	100.0	25	4	US-09-866-108A-5722	Sequence 5722, Ap
C 310	7	100.0	24	3	US-08-576-413A-140	Sequence 140, App	C 383	7	100.0	25	4	US-09-866-108A-5723	Sequence 5723, Ap
C 311	7	100.0	24	3	US-08-795-430-39	Sequence 39, Appl	C 384	7	100.0	25	4	US-09-866-108A-5724	Sequence 5724, Ap
C 312	7	100.0	24	3	US-08-687-421-97	Sequence 97, Appl	C 385	7	100.0	25	4	US-09-866-108A-5725	Sequence 5725, Ap
C 313	7	100.0	24	3	US-08-973-124-51	Sequence 51, Appl	C 386	7	100.0	25	4	US-09-866-108A-5726	Sequence 5726, Ap
C 314	7	100.0	24	3	US-08-973-124-127	Sequence 127, App	C 387	7	100.0	25	4	US-09-866-108A-5727	Sequence 5727, Ap
C 315	7	100.0	24	3	US-08-991-743C-38	Sequence 38, Appl	C 388	7	100.0	25	4	US-09-866-108A-5728	Sequence 5728, Ap
C 316	7	100.0	24	3	US-08-952-793-198	Sequence 198, App	C 389	7	100.0	25	4	US-09-866-108A-5729	Sequence 5729, Ap
C 317	7	100.0	24	3	US-08-952-793-250	Sequence 250, App	C 390	7	100.0	25	4	US-09-866-108A-5730	Sequence 5730, Ap
C 318	7	100.0	24	3	US-09-335-012-46	Sequence 46, Appl	C 391	7	100.0	25	4	US-09-866-108A-5731	Sequence 5731, Ap
C 319	7	100.0	24	4	US-09-368-505B-15	Sequence 15, Appl	C 392	7	100.0	25	4	US-09-866-108A-5732	Sequence 5732, Ap

393	7	100.0	25	4	US-09-866-108A-5733	Sequence 5733, Ap	c 466	7	100.0	27	1	US-08-458-423A-54	Sequence 54, Appl
394	7	100.0	25	4	US-09-866-108A-5734	Sequence 5734, Ap	c 467	7	100.0	27	1	US-08-458-424B-54	Sequence 54, Appl
395	7	100.0	25	4	US-09-866-108A-5735	Sequence 5735, Ap	c 468	7	100.0	27	1	US-08-466-822-8	Sequence 8, Appl
396	7	100.0	25	4	US-09-866-108A-5736	Sequence 5736, Ap	c 469	7	100.0	27	1	US-08-704-504-8	Sequence 8, Appl
397	7	100.0	25	4	US-09-866-108A-14183	Sequence 14183, A	c 470	7	100.0	27	2	US-07-989-847-30	Sequence 30, Appl
398	7	100.0	25	4	US-09-866-108A-14184	Sequence 14184, A	c 471	7	100.0	27	2	US-08-469-411-30	Sequence 30, Appl
399	7	100.0	25	4	US-09-866-108A-14185	Sequence 14185, A	c 472	7	100.0	27	3	US-08-973-124-54	Sequence 54, Appl
400	7	100.0	25	4	US-09-866-108A-14186	Sequence 14186, A	c 473	7	100.0	27	3	US-08-348-548-17	Sequence 17, Appl
401	7	100.0	25	4	US-09-866-108A-14187	Sequence 14187, A	c 474	7	100.0	27	3	US-08-885-366-17	Sequence 17, Appl
402	7	100.0	25	4	US-09-866-108A-14188	Sequence 14188, A	c 475	7	100.0	27	3	US-08-223-342-8	Sequence 8, Appl
403	7	100.0	25	4	US-09-866-108A-14189	Sequence 14189, A	c 476	7	100.0	27	4	US-09-268-505B-14	Sequence 14, Appl
404	7	100.0	25	4	US-09-866-108A-14190	Sequence 14190, A	c 477	7	100.0	27	4	US-08-679-645-1065	Sequence 1065, Ap
405	7	100.0	25	4	US-09-866-108A-14191	Sequence 14191, A	c 478	7	100.0	27	4	US-09-149-727-15	Sequence 15, Appl
406	7	100.0	25	4	US-09-866-108A-14192	Sequence 14192, A	c 479	7	100.0	27	4	US-09-425-034A-8	Sequence 8, Appl
407	7	100.0	25	4	US-09-866-108A-14193	Sequence 14193, A	c 480	7	100.0	27	4	US-09-780-601A-30	Sequence 30, Appl
408	7	100.0	25	4	US-09-866-108A-14194	Sequence 14194, A	c 481	7	100.0	27	4	US-09-747-331-167	Sequence 167, App
409	7	100.0	25	4	US-09-866-108A-14195	Sequence 14195, A	c 482	7	100.0	27	4	PCT-US93-04754-17	Sequence 17, Appl
410	7	100.0	25	4	US-09-866-108A-14196	Sequence 14196, A	c 483	7	100.0	27	5	PCT-US94-01235-8	Sequence 8, Appl
411	7	100.0	25	4	US-09-866-108A-14197	Sequence 14197, A	c 484	7	100.0	27	5	PCT-US95-03125-8	Sequence 8, Appl
412	7	100.0	25	4	US-09-866-108A-14198	Sequence 14198, A	c 485	7	100.0	27	5	PCT-US95-15716-17	Sequence 17, Appl
413	7	100.0	25	4	US-09-866-108A-14199	Sequence 14199, A	c 486	7	100.0	27	5	PCT-US96-07795-8	Sequence 8, Appl
414	7	100.0	25	4	US-09-866-108A-14200	Sequence 14200, A	c 487	7	100.0	27	5	PCT-US96-07796-8	Sequence 8, Appl
415	7	100.0	25	4	US-09-866-108A-14201	Sequence 14201, A	c 488	7	100.0	27	5	PCT-US96-07796-9	Sequence 9, Appl
416	7	100.0	25	4	US-09-866-108A-14463	Sequence 14463, A	c 489	7	100.0	27	5	PCT-US96-08014-54	Sequence 54, Appl
417	7	100.0	25	4	US-09-866-108A-14464	Sequence 14464, A	c 490	7	100.0	27	5	PCT-US96-08014-54	Sequence 54, Appl
418	7	100.0	25	4	US-09-866-108A-14465	Sequence 14465, A	c 491	7	100.0	28	1	US-07-791-936A-8	Sequence 8, Appl
419	7	100.0	25	4	US-09-866-108A-14466	Sequence 14466, A	c 492	7	100.0	28	1	US-08-383-781B-8	Sequence 8, Appl
420	7	100.0	25	4	US-09-866-108A-14467	Sequence 14467, A	c 493	7	100.0	28	1	US-08-386-495-7	Sequence 7, Appl
421	7	100.0	25	4	US-09-866-108A-14468	Sequence 14468, A	c 494	7	100.0	28	2	US-08-366-800-2	Sequence 2, Appl
422	7	100.0	25	4	US-09-866-108A-14469	Sequence 14469, A	c 495	7	100.0	28	2	US-08-880-557-2	Sequence 2, Appl
423	7	100.0	25	4	US-09-866-108A-14470	Sequence 14470, A	c 496	7	100.0	28	3	US-09-006-186-15	Sequence 15, Appl
424	7	100.0	25	4	US-09-866-108A-14471	Sequence 14471, A	c 497	7	100.0	28	3	US-08-508-761B-20	Sequence 20, Appl
425	7	100.0	25	4	US-09-866-108A-14472	Sequence 14472, A	c 498	7	100.0	28	3	US-09-189-583-2	Sequence 2, Appl
426	7	100.0	25	4	US-09-866-108A-14473	Sequence 14473, A	c 499	7	100.0	28	3	US-08-348-548-10	Sequence 10, Appl
427	7	100.0	25	4	US-09-866-108A-14474	Sequence 14474, A	c 500	7	100.0	28	3	US-08-348-548-18	Sequence 18, Appl
428	7	100.0	25	4	US-09-866-108A-14475	Sequence 14475, A	c 501	7	100.0	28	3	US-08-348-548-19	Sequence 19, Appl
429	7	100.0	25	4	US-09-866-108A-14476	Sequence 14476, A	c 502	7	100.0	28	3	US-08-348-548-62	Sequence 62, Appl
430	7	100.0	25	4	US-09-866-108A-14477	Sequence 14477, A	c 503	7	100.0	28	3	US-08-348-548-63	Sequence 63, Appl
431	7	100.0	25	4	US-09-866-108A-14478	Sequence 14478, A	c 504	7	100.0	28	4	US-09-422-576D-23	Sequence 23, Appl
432	7	100.0	25	4	US-09-866-108A-14479	Sequence 14479, A	c 505	7	100.0	28	4	US-09-595-344-5	Sequence 5, Appl
433	7	100.0	25	4	US-09-866-108A-14480	Sequence 14480, A	c 506	7	100.0	28	4	US-09-439-134A-2	Sequence 2, Appl
434	7	100.0	25	4	US-09-866-108A-14481	Sequence 14481, A	c 507	7	100.0	28	5	PCT-US95-15716-10	Sequence 10, Appl
435	7	100.0	25	5	PCT-US95-04803-21	Sequence 21, Appl	c 508	7	100.0	28	5	PCT-US95-15716-18	Sequence 18, Appl
436	7	100.0	26	1	US-07-718-274A-45	Sequence 45, Appl	c 509	7	100.0	28	5	PCT-US95-15716-19	Sequence 19, Appl
437	7	100.0	26	1	US-08-149-106-45	Sequence 45, Appl	c 510	7	100.0	28	5	PCT-US95-15716-62	Sequence 62, Appl
438	7	100.0	26	1	US-08-017-570-24	Sequence 24, Appl	c 511	7	100.0	28	5	PCT-US95-15716-63	Sequence 63, Appl
439	7	100.0	26	1	US-08-298-021-45	Sequence 45, Appl	c 512	7	100.0	28	5	PCT-US96-03331-7	Sequence 7, Appl
440	7	100.0	26	1	US-08-330-535A-15	Sequence 15, Appl	c 513	7	100.0	29	1	US-08-441-116-2	Sequence 2, Appl
441	7	100.0	26	1	US-08-688-145-10	Sequence 10, Appl	c 514	7	100.0	29	1	US-08-433-126A-132	Sequence 132, App
442	7	100.0	26	1	US-08-471-426-24	Sequence 24, Appl	c 515	7	100.0	29	1	US-08-433-126A-132	Sequence 132, App
443	7	100.0	26	2	US-08-838-844-15	Sequence 15, Appl	c 516	7	100.0	29	3	US-08-976-413A-132	Sequence 132, App
444	7	100.0	26	3	US-08-508-761B-24	Sequence 24, Appl	c 517	7	100.0	29	3	US-08-773-106-21	Sequence 21, Appl
445	7	100.0	26	3	US-09-064-964-22	Sequence 22, Appl	c 518	7	100.0	29	4	US-09-037-319A-13	Sequence 13, Appl
446	7	100.0	26	3	US-09-370-368-2	Sequence 2, Appl	c 519	7	100.0	29	4	US-08-973-398-12	Sequence 12, Appl
447	7	100.0	26	4	US-09-423-984-5	Sequence 5, Appl	c 520	7	100.0	29	4	US-09-304-232-163	Sequence 163, App
448	7	100.0	26	4	US-09-609-205-24	Sequence 24, Appl	c 521	7	100.0	29	4	US-09-470-276-34	Sequence 34, Appl
449	7	100.0	26	4	US-09-609-205-24	Sequence 24, Appl	c 522	7	100.0	29	5	PCT-US96-06059-132	Sequence 132, App
450	7	100.0	26	4	US-09-403-066A-4	Sequence 4, Appl	c 523	7	100.0	30	1	US-08-095-726-48	Sequence 48, Appl
451	7	100.0	26	4	US-09-422-576D-21	Sequence 21, Appl	c 524	7	100.0	30	1	US-08-095-726-50	Sequence 50, Appl
452	7	100.0	26	4	US-09-920-663-6	Sequence 6, Appl	c 525	7	100.0	30	1	US-08-096-043-45	Sequence 45, Appl
453	7	100.0	26	4	US-09-486-147-10	Sequence 10, Appl	c 526	7	100.0	30	1	US-08-096-043-47	Sequence 47, Appl
454	7	100.0	26	4	US-09-522-7755A-12	Sequence 12, Appl	c 527	7	100.0	30	1	US-08-093-577-41	Sequence 41, Appl
455	7	100.0	26	5	PCT-US94-01709-24	Sequence 24, Appl	c 528	7	100.0	30	1	US-08-093-577-43	Sequence 43, Appl
456	7	100.0	26	6	5427929-19	Patent No. 5427929	c 529	7	100.0	30	1	US-08-125-012-4	Sequence 4, Appl
457	7	100.0	27	1	US-08-013-801-8	Sequence 8, Appl	c 530	7	100.0	30	1	US-08-328-258-4	Sequence 4, Appl
458	7	100.0	27	1	US-08-072-063-17	Sequence 17, Appl	c 531	7	100.0	30	1	US-08-298-523-5	Sequence 5, Appl
459	7	100.0	27	1	US-08-212-132-8	Sequence 8, Appl	c 532	7	100.0	30	1	US-08-298-523-6	Sequence 6, Appl
460	7	100.0	27	1	US-07-918-318-12	Sequence 12, Appl	c 533	7	100.0	30	1	US-08-232-463-31	Sequence 31, Appl
461	7	100.0	27	1	US-08-064-693-17	Sequence 17, Appl	c 534	7	100.0	30	1	US-08-232-463-32	Sequence 32, Appl
462	7	100.0	27	1	US-08-430-417-8	Sequence 8, Appl	c 535	7	100.0	30	1	US-08-401-908-33	Sequence 33, Appl
463	7	100.0	27	1	US-08-470-366-8	Sequence 8, Appl	c 536	7	100.0	30	1	US-08-401-908-33	Sequence 33, Appl
464	7	100.0	27	1	US-08-458-067-9	Sequence 8, Appl	c 537	7	100.0	30	1	US-08-096-623A-53	Sequence 53, Appl
465	7	100.0	27	1	US-08-458-067-9	Sequence 9, Appl	c 538	7	100.0	30	1	US-08-096-623A-55	Sequence 55, Appl



C 539	7	100.0	30	1	US-08-433-126A-136	Sequence 136, App	C 612	7	100.0	32	4	US-09-623-326-20	Sequence 20, Appl
C 540	7	100.0	30	1	US-08-221-579A-4	Sequence 4, Appl	C 613	7	100.0	32	5	PCT-US95-09468-25	Sequence 25, Appl
C 541	7	100.0	30	1	US-08-433-124A-136	Sequence 136, App	C 614	7	100.0	33	1	US-08-138-608-20	Sequence 20, Appl
C 542	7	100.0	30	1	US-08-783-818-4	Sequence 4, Appl	C 615	7	100.0	33	1	US-08-391-339-13	Sequence 13, Appl
C 543	7	100.0	30	1	US-08-540-242A-8	Sequence 8, Appl	C 616	7	100.0	33	1	US-08-447-172A-5	Sequence 5, Appl
C 544	7	100.0	30	2	US-08-453-349-4	Sequence 4, Appl	C 617	7	100.0	33	1	US-08-484-274A-13	Sequence 13, Appl
C 545	7	100.0	30	2	US-08-661-893-2	Sequence 2, Appl	C 618	7	100.0	33	2	US-08-477-527A-78	Sequence 78, Appl
C 546	7	100.0	30	2	US-08-673-312-7	Sequence 7, Appl	C 619	7	100.0	33	3	US-08-508-761B-23	Sequence 23, Appl
C 547	7	100.0	30	2	US-08-704-701-4	Sequence 4, Appl	C 620	7	100.0	33	3	US-08-481-710-78	Sequence 78, Appl
C 548	7	100.0	30	2	US-08-979-385B-4	Sequence 4, Appl	C 621	7	100.0	33	3	US-09-094-148-4	Sequence 4, Appl
C 549	7	100.0	30	2	US-08-859-998-133	Sequence 133, App	C 622	7	100.0	33	3	US-08-840-466A-14	Sequence 14, Appl
C 550	7	100.0	30	3	US-08-937-271-34	Sequence 34, Appl	C 623	7	100.0	33	4	US-09-696-188B-14	Sequence 14, Appl
C 551	7	100.0	30	3	US-08-976-413A-136	Sequence 136, App	C 624	7	100.0	33	4	US-09-598-747-39	Sequence 39, Appl
C 552	7	100.0	30	3	US-09-321-461-4	Sequence 4, Appl	C 625	7	100.0	33	4	US-09-623-326-21	Sequence 21, Appl
C 553	7	100.0	30	3	US-09-177-268-4	Sequence 4, Appl	C 626	7	100.0	33	5	PCT-US96-09537-78	Sequence 78, Appl
C 554	7	100.0	30	3	US-08-839-624-39	Sequence 39, Appl	C 627	7	100.0	34	1	US-08-641-704-10	Sequence 10, Appl
C 555	7	100.0	30	3	US-09-143-922-12	Sequence 12, Appl	C 628	7	100.0	34	1	US-08-581-989-16	Sequence 16, Appl
C 556	7	100.0	30	3	US-09-149-922-27	Sequence 27, Appl	C 629	7	100.0	34	2	US-08-488-402A-68	Sequence 68, Appl
C 557	7	100.0	30	3	US-08-860-656B-6	Sequence 6, Appl	C 630	7	100.0	34	2	US-08-484-552A-68	Sequence 68, Appl
C 558	7	100.0	30	4	US-09-352-540A-1	Sequence 1, Appl	C 631	7	100.0	34	2	US-08-799-949-6	Sequence 6, Appl
C 559	7	100.0	30	4	US-09-225-928-133	Sequence 133, App	C 632	7	100.0	34	2	US-08-793-410-19	Sequence 19, Appl
C 560	7	100.0	30	4	US-09-799-645-1	Sequence 1, Appl	C 633	7	100.0	34	3	US-09-181-183-14	Sequence 14, Appl
C 561	7	100.0	30	4	US-09-150-812-39	Sequence 39, Appl	C 634	7	100.0	34	3	US-08-961-083-298	Sequence 298, App
C 562	7	100.0	30	4	US-10-002-528-1	Sequence 1, Appl	C 635	7	100.0	34	3	US-08-961-083-308	Sequence 308, App
C 563	7	100.0	30	4	US-08-880-576-4	Sequence 4, Appl	C 636	7	100.0	34	3	US-08-961-083-312	Sequence 312, App
C 564	7	100.0	30	4	US-09-225-201B-133	Sequence 133, App	C 637	7	100.0	34	3	US-08-961-083-407	Sequence 407, App
C 565	7	100.0	30	4	US-09-928-385B-6	Sequence 6, Appl	C 638	7	100.0	34	3	US-08-961-083-442	Sequence 442, App
C 566	7	100.0	30	4	US-09-325-231-19	Sequence 19, Appl	C 639	7	100.0	34	3	US-08-961-083-448	Sequence 448, App
C 567	7	100.0	30	4	US-09-658-010-4	Sequence 4, Appl	C 640	7	100.0	34	4	US-09-280-040-14	Sequence 14, Appl
C 568	7	100.0	30	4	US-09-270-957-52	Sequence 52, Appl	C 641	7	100.0	34	4	US-09-277-700-14	Sequence 14, Appl
C 569	7	100.0	30	4	US-09-270-957-53	Sequence 53, Appl	C 642	7	100.0	34	4	US-08-506-131-17	Sequence 17, Appl
C 570	7	100.0	30	4	US-09-747-391-272	Sequence 272, App	C 643	7	100.0	34	4	US-09-230-233A-5	Sequence 5, Appl
C 571	7	100.0	30	4	US-09-747-391-273	Sequence 273, App	C 644	7	100.0	34	4	US-09-302-357-10	Sequence 10, Appl
C 572	7	100.0	30	4	US-09-747-391-274	Sequence 274, App	C 645	7	100.0	34	4	US-09-536-784-298	Sequence 298, App
C 573	7	100.0	30	4	US-09-747-391-275	Sequence 275, App	C 646	7	100.0	34	4	US-09-536-784-308	Sequence 308, App
C 574	7	100.0	30	4	US-09-747-391-276	Sequence 276, App	C 647	7	100.0	34	4	US-09-536-784-312	Sequence 312, App
C 575	7	100.0	30	5	PCT-US95-10226-5	Sequence 5, Appl	C 648	7	100.0	34	4	US-09-536-784-407	Sequence 407, App
C 576	7	100.0	30	5	PCT-US96-10226-6	Sequence 6, Appl	C 649	7	100.0	34	4	US-09-536-784-442	Sequence 442, App
C 577	7	100.0	30	5	PCT-US96-10226-7	Sequence 7, Appl	C 650	7	100.0	34	4	US-09-536-784-448	Sequence 448, App
C 578	7	100.0	30	5	PCT-US96-06059-136	Sequence 136, App	C 651	7	100.0	34	4	US-09-548-606-2	Sequence 2, Appl
C 579	7	100.0	31	1	US-07-941-363-2	Sequence 2, Appl	C 652	7	100.0	34	4	US-08-845-381E-25	Sequence 25, Appl
C 580	7	100.0	31	1	US-08-486-341A-1	Sequence 1, Appl	C 653	7	100.0	34	4	US-09-896-866B-19	Sequence 19, Appl
C 581	7	100.0	31	1	US-08-605-053-3	Sequence 3, Appl	C 654	7	100.0	34	4	US-09-874-585D-14	Sequence 14, Appl
C 582	7	100.0	31	2	US-08-311-157-1	Sequence 1, Appl	C 655	7	100.0	34	4	US-09-855-341-10	Sequence 10, Appl
C 583	7	100.0	31	2	US-08-606-288-2	Sequence 2, Appl	C 656	7	100.0	34	5	PCT-US93-05899-17	Sequence 17, Appl
C 584	7	100.0	31	3	US-08-425-347-12	Sequence 12, Appl	C 657	7	100.0	34	5	PCT-US95-08533-10	Sequence 10, Appl
C 585	7	100.0	31	3	US-08-602-791-2	Sequence 2, Appl	C 658	7	100.0	34	5	PCT-US96-03472-68	Sequence 68, Appl
C 586	7	100.0	31	3	US-09-026-959-5	Sequence 5, Appl	C 659	7	100.0	35	1	US-08-049-473-21	Sequence 21, Appl
C 587	7	100.0	31	3	US-09-347-483-2	Sequence 2, Appl	C 660	7	100.0	35	1	US-08-312-648-21	Sequence 21, Appl
C 588	7	100.0	31	3	US-08-752-030-1	Sequence 1, Appl	C 661	7	100.0	35	2	US-08-503-226B-29	Sequence 29, Appl
C 589	7	100.0	31	3	US-09-149-922-43	Sequence 43, Appl	C 662	7	100.0	35	2	US-08-484-891-5	Sequence 5, Appl
C 590	7	100.0	31	4	US-09-449-437A-12	Sequence 12, Appl	C 663	7	100.0	35	2	US-08-793-410-16	Sequence 16, Appl
C 591	7	100.0	31	4	US-08-921-317-1	Sequence 1, Appl	C 664	7	100.0	35	3	US-08-682-794-2	Sequence 2, Appl
C 592	7	100.0	31	4	US-09-252-586-9	Sequence 9, Appl	C 665	7	100.0	35	3	US-08-682-794-3	Sequence 3, Appl
C 593	7	100.0	31	4	US-09-422-576D-15	Sequence 15, Appl	C 666	7	100.0	35	3	US-09-181-183-16	Sequence 16, Appl
C 594	7	100.0	31	4	US-09-508-370A-13	Sequence 13, Appl	C 667	7	100.0	35	3	US-09-467-952-2	Sequence 2, Appl
C 595	7	100.0	31	4	US-09-086-118-13	Sequence 13, Appl	C 668	7	100.0	35	3	US-09-467-952-3	Sequence 3, Appl
C 596	7	100.0	31	5	PCT-US95-11456-1	Sequence 1, Appl	C 669	7	100.0	35	4	US-09-280-040-16	Sequence 16, Appl
C 597	7	100.0	32	1	US-08-221-968-3	Sequence 3, Appl	C 670	7	100.0	35	4	US-09-277-700-16	Sequence 16, Appl
C 598	7	100.0	32	1	US-08-437-841-25	Sequence 25, Appl	C 671	7	100.0	35	4	US-08-706-945D-43	Sequence 43, Appl
C 599	7	100.0	32	1	US-08-286-521-25	Sequence 25, Appl	C 672	7	100.0	35	4	US-08-706-945D-45	Sequence 45, Appl
C 600	7	100.0	32	1	US-08-436-175-25	Sequence 25, Appl	C 673	7	100.0	35	4	US-08-613-743-3	Sequence 3, Appl
C 601	7	100.0	32	1	US-08-481-003-28	Sequence 28, Appl	C 674	7	100.0	35	4	US-09-150-811-5	Sequence 5, Appl
C 602	7	100.0	32	1	US-08-795-470-4	Sequence 4, Appl	C 675	7	100.0	35	4	US-09-647-468-18	Sequence 18, Appl
C 603	7	100.0	32	2	US-08-567-196-3	Sequence 3, Appl	C 676	7	100.0	35	4	US-09-874-585D-16	Sequence 16, Appl
C 604	7	100.0	32	2	US-08-682-827-1	Sequence 1, Appl	C 677	7	100.0	35	5	PCT-US94-04190-21	Sequence 21, Appl
C 605	7	100.0	32	2	US-08-503-236B-30	Sequence 30, Appl	C 678	7	100.0	36	1	US-08-049-473-20	Sequence 20, Appl
C 606	7	100.0	32	2	US-08-853-217-23	Sequence 23, Appl	C 679	7	100.0	36	1	US-07-781-254A-27	Sequence 27, Appl
C 607	7	100.0	32	3	US-08-508-761B-19	Sequence 19, Appl	C 680	7	100.0	36	1	US-08-312-648-20	Sequence 20, Appl
C 608	7	100.0	32	3	US-08-485-598-28	Sequence 28, Appl	C 681	7	100.0	36	1	US-08-353-751-5	Sequence 5, Appl
C 609	7	100.0	32	3	US-08-721-458B-30	Sequence 30, Appl	C 682	7	100.0	36	2	US-08-841-178-17	Sequence 17, Appl
C 610	7	100.0	32	3	US-08-943-682-25	Sequence 25, Appl	C 683	7	100.0	36	2	US-08-985-337A-13	Sequence 13, Appl
C 611	7	100.0	32	4	US-09-238-356-39	Sequence 39, Appl	C 684	7	100.0	36	2	US-08-958-642-9	Sequence 9, Appl

C 685 7 100.0 36 2 US-08-985-124A-13 Sequence 13, Appl  
C 686 7 100.0 36 2 US-08-985-320A-13 Sequence 13, Appl  
C 687 7 100.0 36 2 US-08-902-632-22 Sequence 22, Appl  
C 688 7 100.0 36 3 US-08-984-732A-13 Sequence 13, Appl  
C 689 7 100.0 36 3 US-09-195-578-25 Sequence 25, Appl  
C 690 7 100.0 36 3 US-08-778-423A-9 Sequence 9, Appl  
C 691 7 100.0 36 3 US-08-781-891-130 Sequence 190, Appl  
C 692 7 100.0 36 3 US-09-170-951-25 Sequence 25, Appl  
C 693 7 100.0 36 3 US-09-164-482-25 Sequence 25, Appl  
C 694 7 100.0 36 3 US-08-863-813A-2 Sequence 20, Appl  
C 695 7 100.0 36 3 US-09-332-763-20 Sequence 20, Appl  
C 696 7 100.0 36 3 US-09-042-943-10 Sequence 10, Appl  
C 697 7 100.0 36 3 US-08-676-318A-2 Sequence 2, Appl  
C 698 7 100.0 36 3 US-09-061-048-2 Sequence 2, Appl  
C 699 7 100.0 36 3 US-09-456-153-20 Sequence 20, Appl  
C 700 7 100.0 36 3 US-08-446-114A-20 Sequence 20, Appl  
C 701 7 100.0 36 3 US-09-167-180-25 Sequence 25, Appl  
C 702 7 100.0 36 4 US-09-455-627-20 Sequence 20, Appl  
C 703 7 100.0 36 4 US-09-426-533-20 Sequence 20, Appl  
C 704 7 100.0 36 4 US-09-609-205-21 Sequence 21, Appl  
C 705 7 100.0 36 4 US-09-516-945-20 Sequence 20, Appl  
C 706 7 100.0 36 4 US-09-757-218-21 Sequence 21, Appl  
C 707 7 100.0 36 4 US-09-516-757-20 Sequence 20, Appl  
C 708 7 100.0 36 4 US-09-516-750-20 Sequence 20, Appl  
C 709 7 100.0 36 4 US-09-342-577-21 Sequence 21, Appl  
C 710 7 100.0 36 4 US-09-516-756-20 Sequence 20, Appl  
C 711 7 100.0 36 4 US-09-828-061A-21 Sequence 21, Appl  
C 712 7 100.0 36 4 US-09-463-917-20 Sequence 20, Appl  
C 713 7 100.0 36 4 US-09-761-716-4 Sequence 4, Appl  
C 714 7 100.0 36 4 US-09-347-673-21 Sequence 21, Appl  
C 715 7 100.0 36 4 US-09-757-213-21 Sequence 21, Appl  
C 716 7 100.0 36 4 US-09-656-653-20 Sequence 20, Appl  
C 717 7 100.0 36 4 US-09-757-251-21 Sequence 21, Appl  
C 718 7 100.0 36 4 US-09-828-259A-21 Sequence 21, Appl  
C 719 7 100.0 36 4 US-09-720-644-5 Sequence 5, Appl  
C 720 7 100.0 36 4 US-09-719-878-21 Sequence 21, Appl  
C 721 7 100.0 36 4 US-09-757-217A-21 Sequence 21, Appl  
C 722 7 100.0 36 4 US-09-579-365-15 Sequence 15, Appl  
C 723 7 100.0 36 4 US-09-618-166-190 Sequence 190, Appl  
C 724 7 100.0 36 4 US-09-828-325A-21 Sequence 21, Appl  
C 725 7 100.0 36 4 US-09-756-248-20 Sequence 20, Appl  
C 726 7 100.0 36 4 US-09-270-957-54 Sequence 54, Appl  
C 727 7 100.0 36 4 US-09-403-422-4 Sequence 4, Appl  
C 728 7 100.0 36 5 PCT-US94-04190-20 Sequence 20, Appl  
C 729 7 100.0 36 5 PCT-US96-05611A-15 Sequence 15, Appl  
C 730 7 100.0 37 2 US-08-211-718-7 Sequence 7, Appl  
C 731 7 100.0 37 3 US-08-961-083-446 Sequence 446, Appl  
C 732 7 100.0 37 4 US-09-595-549-15 Sequence 15, Appl  
C 733 7 100.0 37 4 US-09-595-549-15 Sequence 15, Appl  
C 734 7 100.0 37 4 US-09-536-784-446 Sequence 446, Appl  
C 735 7 100.0 37 4 US-09-557-910-6 Sequence 6, Appl  
C 736 7 100.0 38 1 US-08-137-016-11 Sequence 11, Appl  
C 737 7 100.0 38 1 US-08-182-114-5 Sequence 5, Appl  
C 738 7 100.0 38 1 US-08-437-841-22 Sequence 22, Appl  
C 739 7 100.0 38 1 US-08-286-521-22 Sequence 22, Appl  
C 740 7 100.0 38 1 US-08-433-126A-138 Sequence 138, Appl  
C 741 7 100.0 38 1 US-08-436-175-22 Sequence 22, Appl  
C 742 7 100.0 38 1 US-08-463-115-86 Sequence 86, Appl  
C 743 7 100.0 38 1 US-08-433-124A-138 Sequence 138, Appl  
C 744 7 100.0 38 1 US-08-465-388-86 Sequence 86, Appl  
C 745 7 100.0 38 2 US-08-731-272A-7 Sequence 7, Appl  
C 746 7 100.0 38 3 US-08-721-458B-29 Sequence 29, Appl  
C 747 7 100.0 38 3 US-08-976-413A-138 Sequence 138, Appl  
C 748 7 100.0 38 3 US-08-961-083-347 Sequence 347, Appl  
C 749 7 100.0 38 3 US-08-961-083-347 Sequence 347, Appl  
C 750 7 100.0 38 3 US-08-961-083-347 Sequence 347, Appl  
C 751 7 100.0 38 3 US-08-943-682-22 Sequence 22, Appl  
C 752 7 100.0 38 3 US-09-078-199-27 Sequence 27, Appl  
C 753 7 100.0 38 3 US-09-078-199-27 Sequence 27, Appl  
C 754 7 100.0 38 3 US-09-369-971-27 Sequence 27, Appl  
C 755 7 100.0 38 3 US-09-369-971-27 Sequence 27, Appl  
C 756 7 100.0 38 4 US-09-117-121-4 Sequence 4, Appl  
C 757 7 100.0 38 4 US-09-390-326-4 Sequence 4, Appl

38 4 US-09-453-702B-115 Sequence 115, Appl  
38 4 US-09-035-233-1 Sequence 1, Appl  
38 4 US-09-035-233-1 Sequence 1, Appl  
38 4 US-09-307-973A-20 Sequence 20, Appl  
38 4 US-09-536-784-347 Sequence 347, Appl  
38 4 US-09-536-784-423 Sequence 423, Appl  
38 4 US-08-845-381E-23 Sequence 23, Appl  
38 4 US-09-230-846A-1 Sequence 1, Appl  
38 5 PCT-US95-09464-22 Sequence 22, Appl  
38 5 PCT-US95-09464-22 Sequence 22, Appl  
38 5 PCT-US95-09464-22 Sequence 22, Appl  
39 1 US-07-834-539A-61 Sequence 61, Appl  
39 1 US-07-834-539A-61 Sequence 61, Appl  
39 1 US-08-053-131-109 Sequence 109, Appl  
39 1 US-08-053-131-109 Sequence 109, Appl  
39 1 US-08-645-641-109 Sequence 109, Appl  
39 1 US-08-645-641-110 Sequence 110, Appl  
39 1 US-08-481-003-1 Sequence 1, Appl  
39 1 US-07-853-408B-109 Sequence 109, Appl  
39 1 US-07-853-408B-110 Sequence 110, Appl  
39 1 US-08-096-762-109 Sequence 109, Appl  
39 1 US-08-096-762-110 Sequence 110, Appl  
39 2 US-08-882-083-8 Sequence 8, Appl  
39 2 US-08-800-353-61 Sequence 61, Appl  
39 2 US-08-800-353-62 Sequence 62, Appl  
39 2 US-08-308-865-109 Sequence 109, Appl  
39 2 US-08-308-865-110 Sequence 110, Appl  
39 2 US-08-558-107-8 Sequence 8, Appl  
39 2 US-08-913-477-15 Sequence 15, Appl  
39 3 US-08-444-644-12 Sequence 12, Appl  
39 3 US-08-564-496C-16 Sequence 16, Appl  
39 3 US-08-331-625A-47 Sequence 47, Appl  
39 3 US-08-485-598-1 Sequence 1, Appl  
39 3 US-07-921-104D-1 Sequence 1, Appl  
39 3 US-07-921-104D-4 Sequence 4, Appl  
39 3 US-09-243-539-8 Sequence 8, Appl  
39 3 US-09-011-540-9 Sequence 9, Appl  
39 3 US-09-079-984A-6 Sequence 6, Appl  
39 3 US-09-042-353-302 Sequence 302, Appl  
39 3 US-09-042-353-303 Sequence 303, Appl  
39 3 US-08-392-459-13 Sequence 13, Appl  
39 4 US-08-758-417A-150 Sequence 150, Appl  
39 4 US-08-758-417A-151 Sequence 151, Appl  
39 4 US-08-232-246A-12 Sequence 12, Appl  
39 4 US-09-693-147-20 Sequence 20, Appl  
39 4 US-09-494-151-47 Sequence 47, Appl  
39 4 US-09-390-729-6 Sequence 6, Appl  
39 4 US-09-972-484-47 Sequence 47, Appl  
39 4 US-09-854-799-13 Sequence 13, Appl  
39 5 PCT-US91-08525-13 Sequence 13, Appl  
39 5 PCT-US92-06185-61 Sequence 61, Appl  
39 5 PCT-US92-06185-62 Sequence 62, Appl  
39 5 PCT-US92-10983-109 Sequence 109, Appl  
39 5 PCT-US92-10983-110 Sequence 110, Appl  
39 5 PCT-US92-10983-110 Sequence 110, Appl  
39 5 PCT-US93-04384-37 Sequence 37, Appl  
39 5 PCT-US93-04692-4 Sequence 4, Appl  
39 5 PCT-US93-04692-4 Sequence 4, Appl  
40 1 US-08-443-957-27 Sequence 27, Appl  
40 2 US-08-503-226B-31 Sequence 31, Appl  
40 2 US-09-133-914-5 Sequence 5, Appl  
40 3 US-08-721-458B-31 Sequence 31, Appl  
40 3 US-08-961-083-432 Sequence 432, Appl  
40 3 US-09-416-050A-40 Sequence 40, Appl  
40 3 US-09-416-050A-41 Sequence 41, Appl  
40 3 US-09-416-050A-63 Sequence 63, Appl  
40 3 US-09-416-050A-71 Sequence 71, Appl  
40 3 US-09-416-050A-73 Sequence 73, Appl  
40 3 US-09-416-050A-79 Sequence 79, Appl  
40 3 US-09-664-800-40 Sequence 40, Appl  
40 3 US-09-664-800-41 Sequence 41, Appl  
40 3 US-09-664-800-63 Sequence 63, Appl  
40 3 US-09-664-800-71 Sequence 71, Appl  
40 3 US-09-664-800-73 Sequence 73, Appl  
40 3 US-09-664-800-79 Sequence 79, Appl  
40 3 US-09-665-309-40 Sequence 40, Appl

7 100.0 758  
7 100.0 759  
7 100.0 C 760  
7 100.0 C 761  
7 100.0 C 762  
7 100.0 C 763  
7 100.0 C 764  
7 100.0 C 765  
7 100.0 C 766  
7 100.0 C 767  
7 100.0 C 768  
7 100.0 C 769  
7 100.0 C 770  
7 100.0 C 771  
7 100.0 C 772  
7 100.0 C 773  
7 100.0 C 774  
7 100.0 C 775  
7 100.0 C 776  
7 100.0 C 777  
7 100.0 C 778  
7 100.0 C 779  
7 100.0 C 780  
7 100.0 C 781  
7 100.0 C 782  
7 100.0 C 783  
7 100.0 C 784  
7 100.0 C 785  
7 100.0 C 786  
7 100.0 C 787  
7 100.0 C 788  
7 100.0 C 789  
7 100.0 C 790  
7 100.0 C 791  
7 100.0 C 792  
7 100.0 C 793  
7 100.0 C 794  
7 100.0 C 795  
7 100.0 C 796  
7 100.0 C 797  
7 100.0 C 798  
7 100.0 C 799  
7 100.0 C 800  
7 100.0 C 801  
7 100.0 C 802  
7 100.0 C 803  
7 100.0 C 804  
7 100.0 C 805  
7 100.0 C 806  
7 100.0 C 807  
7 100.0 C 808  
7 100.0 C 809  
7 100.0 C 810  
7 100.0 C 811  
7 100.0 C 812  
7 100.0 C 813  
7 100.0 C 814  
7 100.0 C 815  
7 100.0 C 816  
7 100.0 C 817  
7 100.0 C 818  
7 100.0 C 819  
7 100.0 C 820  
7 100.0 C 821  
7 100.0 C 822  
7 100.0 C 823  
7 100.0 C 824  
7 100.0 C 825  
7 100.0 C 826  
7 100.0 C 827  
7 100.0 C 828  
7 100.0 C 829  
7 100.0 C 830

831	7	100.0	40	3	US-09-665-309-41	Sequence 41, Appl	904	7	100.0	45	3	US-08-989-251-7	Sequence 7, Appl
832	7	100.0	40	3	US-09-665-309-63	Sequence 63, Appl	c 905	7	100.0	45	3	US-08-508-761B-25	Sequence 25, Appl
833	7	100.0	40	3	US-09-665-309-71	Sequence 71, Appl	906	7	100.0	45	3	US-09-340-250-7	Sequence 7, Appl
834	7	100.0	40	3	US-09-665-309-73	Sequence 73, Appl	c 907	7	100.0	45	3	US-08-721-458B-64	Sequence 64, Appl
835	7	100.0	40	3	US-09-665-309-79	Sequence 79, Appl	c 908	7	100.0	45	3	US-08-446-114B-6	Sequence 6, Appl
836	7	100.0	40	3	US-09-661-569-40	Sequence 40, Appl	909	7	100.0	45	4	US-09-528-108-7	Sequence 7, Appl
837	7	100.0	40	3	US-09-661-569-41	Sequence 41, Appl	c 910	7	100.0	45	4	US-09-757-218-24	Sequence 24, Appl
838	7	100.0	40	3	US-09-661-569-63	Sequence 63, Appl	c 911	7	100.0	45	4	US-09-757-218-24	Sequence 24, Appl
839	7	100.0	40	3	US-09-661-569-71	Sequence 71, Appl	912	7	100.0	45	4	US-09-342-577-24	Sequence 24, Appl
840	7	100.0	40	3	US-09-661-569-73	Sequence 73, Appl	c 913	7	100.0	45	4	US-09-342-577-24	Sequence 24, Appl
841	7	100.0	40	3	US-09-661-569-79	Sequence 79, Appl	c 914	7	100.0	45	4	US-09-828-061A-24	Sequence 24, Appl
842	7	100.0	40	3	US-09-469-137-5	Sequence 5, Appl	c 915	7	100.0	45	4	US-09-828-061A-24	Sequence 24, Appl
843	7	100.0	40	4	US-09-153-310-18	Sequence 18, Appl	c 916	7	100.0	45	4	US-09-347-673-24	Sequence 24, Appl
844	7	100.0	40	4	US-08-706-945D-41	Sequence 41, Appl	c 917	7	100.0	45	4	US-09-347-673-24	Sequence 24, Appl
845	7	100.0	40	4	US-09-536-784-432	Sequence 432, App	918	7	100.0	45	4	US-09-757-213-24	Sequence 24, Appl
846	7	100.0	40	4	US-09-949-109-5	Sequence 5, Appl	c 919	7	100.0	45	4	US-09-757-213-24	Sequence 24, Appl
847	7	100.0	40	4	US-09-715-521C-6	Sequence 6, Appl	c 920	7	100.0	45	4	US-09-757-213-24	Sequence 23, Appl
848	7	100.0	40	4	US-09-715-521C-13	Sequence 13, Appl	c 921	7	100.0	45	4	US-09-856-653-23	Sequence 23, Appl
849	7	100.0	41	1	US-08-433-126A-134	Sequence 134, App	c 922	7	100.0	45	4	US-09-856-653-23	Sequence 23, Appl
850	7	100.0	41	1	US-08-433-126A-134	Sequence 134, App	c 923	7	100.0	45	4	US-09-757-251-24	Sequence 24, Appl
851	7	100.0	41	1	US-08-110-691A-15	Sequence 15, Appl	924	7	100.0	45	4	US-09-757-251-24	Sequence 24, Appl
852	7	100.0	41	1	US-08-110-691A-18	Sequence 18, Appl	c 925	7	100.0	45	4	US-09-828-259A-24	Sequence 24, Appl
853	7	100.0	41	3	US-08-813-507-128	Sequence 128, App	c 926	7	100.0	45	4	US-09-828-259A-24	Sequence 24, Appl
854	7	100.0	41	3	US-08-976-413A-134	Sequence 134, App	c 927	7	100.0	45	4	US-09-719-878-24	Sequence 24, Appl
855	7	100.0	41	4	US-09-464-453-128	Sequence 128, App	c 928	7	100.0	45	4	US-09-719-878-24	Sequence 24, Appl
856	7	100.0	41	4	US-09-463-453-128	Sequence 128, App	c 929	7	100.0	45	4	US-09-757-217A-24	Sequence 24, Appl
857	7	100.0	41	5	PCT-US96-06059-134	Sequence 134, App	930	7	100.0	45	4	US-09-828-325A-24	Sequence 24, Appl
858	7	100.0	42	1	US-08-274-318-3	Sequence 3, Appl	c 931	7	100.0	45	4	US-09-828-325A-24	Sequence 24, Appl
859	7	100.0	42	1	US-08-433-126A-238	Sequence 238, App	c 932	7	100.0	45	4	US-09-634-137-21	Sequence 21, Appl
860	7	100.0	42	1	US-08-433-126A-239	Sequence 239, App	c 933	7	100.0	45	4	US-09-634-137-28	Sequence 28, Appl
861	7	100.0	42	1	US-08-460-343B-28	Sequence 28, Appl	934	7	100.0	45	6	5427929-23	Patent No. 5427929-23
862	7	100.0	42	1	US-08-460-343B-28	Sequence 28, Appl	c 935	7	100.0	45	6	5427929-23	Patent No. 5427929-23
863	7	100.0	42	1	US-08-481-003-12	Sequence 12, Appl	936	7	100.0	46	1	US-08-433-126A-240	Sequence 240, App
864	7	100.0	42	1	US-08-433-124A-238	Sequence 238, App	937	7	100.0	46	1	US-08-433-124A-240	Sequence 240, App
865	7	100.0	42	1	US-08-433-124B-239	Sequence 239, App	c 938	7	100.0	46	2	US-08-544-822-3	Sequence 3, Appl
866	7	100.0	42	1	US-08-398-028B-28	Sequence 28, App	c 939	7	100.0	46	2	US-08-544-822-3	Sequence 3, Appl
867	7	100.0	42	1	US-08-398-028B-29	Sequence 28, Appl	c 940	7	100.0	46	2	US-08-558-665-100	Sequence 100, App
868	7	100.0	42	2	US-08-504-265B-28	Sequence 28, Appl	941	7	100.0	46	3	US-08-558-665-101	Sequence 101, App
869	7	100.0	42	2	US-08-504-265B-29	Sequence 29, Appl	c 942	7	100.0	46	3	US-08-558-665-101	Sequence 101, App
870	7	100.0	42	2	US-08-754-108-3	Sequence 3, Appl	943	7	100.0	46	3	US-08-976-413A-240	Sequence 240, App
871	7	100.0	42	3	US-08-485-598-12	Sequence 12, Appl	c 944	7	100.0	46	3	US-08-976-413A-240	Sequence 240, App
872	7	100.0	42	3	US-08-976-413A-238	Sequence 238, App	945	7	100.0	46	3	US-08-985-273-100	Sequence 100, App
873	7	100.0	42	3	US-08-976-413A-239	Sequence 239, App	c 946	7	100.0	46	3	US-08-985-273-101	Sequence 101, App
874	7	100.0	42	3	US-09-233-086-29	Sequence 29, Appl	947	7	100.0	46	4	US-09-916-963-100	Sequence 100, App
875	7	100.0	42	4	US-09-381-244B-25	Sequence 25, Appl	c 948	7	100.0	46	4	US-09-916-963-101	Sequence 101, App
876	7	100.0	42	4	US-09-381-244B-26	Sequence 26, Appl	c 949	7	100.0	46	4	US-09-916-963-101	Sequence 101, App
877	7	100.0	42	4	US-09-230-846A-2	Sequence 2, Appl	950	7	100.0	46	5	PCT-US96-06059-240	Sequence 240, App
878	7	100.0	42	5	PCT-US96-06059-238	Sequence 238, App	c 951	7	100.0	47	1	US-08-053-131-55	Sequence 55, Appl
879	7	100.0	42	5	PCT-US96-06059-239	Sequence 239, App	c 952	7	100.0	47	1	US-08-053-131-55	Sequence 55, Appl
880	7	100.0	43	1	US-07-865-878A-8	Sequence 5, Appl	c 953	7	100.0	47	1	US-08-645-641-55	Sequence 55, Appl
881	7	100.0	43	1	US-08-157-363A-8	Sequence 8, Appl	c 954	7	100.0	47	1	US-07-853-408B-55	Sequence 55, Appl
882	7	100.0	43	1	US-08-453-924-13	Sequence 13, Appl	c 955	7	100.0	47	2	US-08-096-762-55	Sequence 55, Appl
883	7	100.0	43	1	US-08-471-791-34	Sequence 34, Appl	c 956	7	100.0	47	2	US-08-308-865-55	Sequence 55, Appl
884	7	100.0	43	1	US-08-471-791-41	Sequence 41, Appl	957	7	100.0	47	3	US-08-477-527A-185	Sequence 185, App
885	7	100.0	43	2	US-08-603-010-5	Sequence 5, Appl	c 958	7	100.0	47	3	US-08-477-527A-185	Sequence 185, App
886	7	100.0	43	2	US-08-274-608-9	Sequence 9, Appl	c 959	7	100.0	47	3	US-08-937-271-28	Sequence 28, Appl
887	7	100.0	43	4	US-08-771-190-9	Sequence 9, Appl	c 960	7	100.0	47	3	US-08-937-271-28	Sequence 28, Appl
888	7	100.0	43	5	PCT-US91-01746-34	Sequence 34, Appl	c 961	7	100.0	47	3	US-08-915-152-4	Sequence 4, Appl
889	7	100.0	43	5	PCT-US91-01746-41	Sequence 41, Appl	c 962	7	100.0	47	4	US-09-042-353-218	Sequence 218, App
890	7	100.0	43	5	PCT-US91-01750-13	Sequence 13, Appl	c 963	7	100.0	47	4	US-09-042-353-218	Sequence 218, App
891	7	100.0	43	5	PCT-US93-11405A-8	Sequence 8, Appl	964	7	100.0	47	4	US-09-360-237-26	Sequence 26, Appl
892	7	100.0	43	5	PCT-US93-11405A-8	Sequence 8, Appl	c 965	7	100.0	47	4	US-09-360-237-26	Sequence 26, Appl
893	7	100.0	43	5	PCT-US94-07955-9	Sequence 9, Appl	c 966	7	100.0	47	4	US-09-671-317-838	Sequence 838, App
894	7	100.0	43	6	517307-3	Patent No. 517307	967	7	100.0	47	4	US-09-671-317-838	Sequence 838, App
895	7	100.0	44	1	US-08-049-473-24	Sequence 24, Appl	c 968	7	100.0	47	5	US-09-422-978-3456	Sequence 3456, App
896	7	100.0	44	1	US-08-312-648-24	Sequence 24, Appl	c 969	7	100.0	47	5	US-09-422-978-3456	Sequence 3456, App
897	7	100.0	44	1	US-08-121-202-14	Sequence 14, Appl	970	7	100.0	48	5	PCT-US92-10983-55	Sequence 55, Appl
898	7	100.0	44	2	US-08-488-402A-117	Sequence 117, App	c 971	7	100.0	48	5	PCT-US92-10983-55	Sequence 55, Appl
899	7	100.0	44	2	US-08-484-552A-117	Sequence 117, App	c 972	7	100.0	48	1	PCT-US96-07627-4	Sequence 4, Appl
900	7	100.0	44	3	US-09-029-267-9	Sequence 9, Appl	c 973	7	100.0	48	1	PCT-US96-07627-4	Sequence 4, Appl
901	7	100.0	44	5	PCT-US94-04190-24	Sequence 24, App	c 974	7	100.0	48	1	PCT-US96-09537-185	Sequence 185, App
902	7	100.0	44	5	PCT-US96-09472-117	Sequence 117, App	975	7	100.0	48	1	PCT-US96-09537-185	Sequence 185, App
903	7	100.0	45	1	US-08-255-272-24	Sequence 24, Appl	c 976	7	100.0	48	2	US-08-374-770-2	Sequence 2, Appl
904	7	100.0	45	1	US-08-255-272-24	Sequence 24, Appl	c 977	7	100.0	48	2	US-08-374-770-2	Sequence 2, Appl

977	7	100.0	48	3	US-09-109-207C-35	Sequence 35, Appl	c1050	7	100.0	54	3	US-09-013-810-9	Sequence 9, Appl
978	7	100.0	48	3	US-09-109-207C-44	Sequence 44, Appl	c1051	7	100.0	55	2	US-08-467-747-2	Sequence 2, Appl
979	7	100.0	48	3	US-08-796-101-81	Sequence 81, Appl	c1052	7	100.0	55	2	US-08-467-747-4	Sequence 4, Appl
980	7	100.0	48	3	US-09-085-273-104	Sequence 104, App	c1053	7	100.0	55	2	US-08-472-171-12	Sequence 12, Appl
c 981	7	100.0	48	3	US-09-041-185-7	Sequence 7, Appl	c1054	7	100.0	55	2	US-08-894-526-12	Sequence 12, Appl
c 982	7	100.0	48	4	US-08-938-366-15	Sequence 15, Appl	c1055	7	100.0	55	2	US-09-013-047-12	Sequence 12, Appl
c 983	7	100.0	48	4	US-09-367-777-38	Sequence 38, Appl	c1056	7	100.0	55	3	US-09-374-597-12	Sequence 12, Appl
c 984	7	100.0	48	4	US-09-367-791A-21	Sequence 21, Appl	c1057	7	100.0	55	4	US-08-956-171B-2276	Sequence 2276, Ap
c 985	7	100.0	48	4	US-09-916-963-104	Sequence 104, App	c1058	7	100.0	56	1	US-07-854-845B-3	Sequence 3, Appl
c 986	7	100.0	48	4	US-09-920-171-35	Sequence 35, Appl	c1059	7	100.0	56	1	US-08-484-686B-58	Sequence 58, Appl
c 987	7	100.0	48	4	US-09-920-171-44	Sequence 44, Appl	c1060	7	100.0	56	2	US-08-875-154-32	Sequence 32, Appl
c 988	7	100.0	49	1	US-07-593-657-19	Sequence 19, Appl	c1061	7	100.0	56	3	US-08-463-160B-58	Sequence 58, Appl
c 989	7	100.0	49	1	US-08-198-670A-34	Sequence 34, Appl	c1062	7	100.0	56	5	PCT-US91-0256B-14	Sequence 14, Appl
c 990	7	100.0	49	4	US-09-797-239A-8	Sequence 8, Appl	c1063	7	100.0	57	2	US-08-472-171-7	Sequence 7, Appl
c 991	7	100.0	49	4	US-09-367-777-37	Sequence 37, Appl	c1064	7	100.0	57	2	US-08-350-346-9	Sequence 9, Appl
c 992	7	100.0	49	4	US-09-367-791A-20	Sequence 20, Appl	c1065	7	100.0	57	2	US-08-894-526-7	Sequence 7, Appl
c 993	7	100.0	50	1	US-08-171-389-483	Sequence 483, App	c1066	7	100.0	57	2	US-09-013-047-7	Sequence 7, Appl
c 994	7	100.0	50	1	US-08-133-629-6	Sequence 6, Appl	c1067	7	100.0	57	3	US-09-374-597-7	Sequence 7, Appl
c 995	7	100.0	50	1	US-08-374-770-3	Sequence 3, Appl	c1068	7	100.0	57	3	US-08-863-813A-47	Sequence 47, Appl
c 996	7	100.0	50	1	US-08-384-708A-5	Sequence 5, Appl	c1069	7	100.0	57	4	US-09-367-777-39	Sequence 39, Appl
c 997	7	100.0	50	1	US-08-461-533B-3	Sequence 3, Appl	c1070	7	100.0	57	4	US-09-367-777-40	Sequence 40, Appl
c 998	7	100.0	50	1	US-08-123-936-483	Sequence 483, App	c1071	7	100.0	57	4	US-09-367-791A-22	Sequence 22, Appl
c 999	7	100.0	50	1	US-08-176-427B-21	Sequence 21, Appl	c1072	7	100.0	57	4	US-09-367-791A-23	Sequence 23, Appl
1000	7	100.0	50	1	US-08-651-323A-3	Sequence 3, Appl	c1073	7	100.0	59	1	US-08-530-492-131	Sequence 131, App
1001	7	100.0	50	1	US-08-641-641-41	Sequence 41, Appl	c1074	7	100.0	59	3	US-08-906-517-131	Sequence 131, App
1002	7	100.0	50	2	US-08-488-402A-73	Sequence 73, Appl	c1075	7	100.0	59	4	US-09-532-656-18	Sequence 18, Appl
c1003	7	100.0	50	2	US-08-356-060A-21	Sequence 21, Appl	c1076	7	100.0	59	4	US-09-775-319-5	Sequence 5, Appl
1004	7	100.0	50	2	US-08-484-552A-73	Sequence 73, Appl	c1077	7	100.0	59	4	US-09-775-319-9	Sequence 9, Appl
c1005	7	100.0	50	2	US-08-475-228A-483	Sequence 483, App	c1078	7	100.0	59	4	US-09-532-419A-5	Sequence 5, Appl
c1006	7	100.0	50	2	US-08-053-451B-98	Sequence 98, Appl	c1079	7	100.0	59	4	US-09-532-419A-9	Sequence 9, Appl
c1007	7	100.0	50	3	US-08-482-080A-483	Sequence 483, App	c1080	7	100.0	60	1	US-08-313-073-2	Sequence 2, Appl
c1008	7	100.0	50	3	US-08-460-900C-21	Sequence 21, Appl	c1081	7	100.0	60	2	US-07-662-764D-32	Sequence 32, Appl
c1009	7	100.0	50	3	US-08-460-900C-51	Sequence 51, Appl	c1082	7	100.0	60	2	US-07-662-764D-32	Sequence 32, Appl
c1010	7	100.0	50	3	US-08-687-421-5	Sequence 5, Appl	c1083	7	100.0	60	4	US-09-193-390A-32	Sequence 32, Appl
c1011	7	100.0	50	3	US-08-674-509B-21	Sequence 21, Appl	c1084	7	100.0	60	4	US-09-193-390A-32	Sequence 32, Appl
c1012	7	100.0	50	3	US-08-954-698-21	Sequence 21, Appl	c1085	7	100.0	61	2	US-08-488-402A-69	Sequence 69, Appl
c1013	7	100.0	50	4	US-08-957-874-21	Sequence 21, Appl	c1086	7	100.0	61	2	US-08-484-552A-69	Sequence 69, Appl
c1014	7	100.0	50	4	US-09-354-947-483	Sequence 483, App	c1087	7	100.0	61	5	PCT-US96-09473-69	Sequence 69, Appl
c1015	7	100.0	50	4	US-09-554-929-9	Sequence 9, Appl	c1088	7	100.0	62	1	US-08-651-835A-10	Sequence 10, Appl
c1016	7	100.0	50	4	US-09-600-991-12	Sequence 12, Appl	c1089	7	100.0	62	3	US-08-687-421-421	Sequence 421, App
c1017	7	100.0	50	4	US-09-639-695-21	Sequence 21, Appl	c1090	7	100.0	63	1	US-08-651-835A-11	Sequence 11, Appl
c1018	7	100.0	50	4	US-09-639-695-51	Sequence 51, Appl	c1091	7	100.0	63	3	US-08-976-413A-357	Sequence 357, App
c1019	7	100.0	50	4	US-09-448-188-21	Sequence 21, Appl	c1092	7	100.0	63	3	US-08-937-195-5	Sequence 5, Appl
c1020	7	100.0	50	4	US-08-954-128-21	Sequence 21, Appl	c1093	7	100.0	63	3	US-08-915-152-5	Sequence 5, Appl
c1021	7	100.0	50	4	US-08-954-740-21	Sequence 21, Appl	c1094	7	100.0	63	5	PCT-US96-07627-5	Sequence 5, Appl
c1022	7	100.0	50	4	US-09-736-476-21	Sequence 21, Appl	c1095	7	100.0	64	3	US-08-895-707-16	Sequence 16, Appl
c1023	7	100.0	50	5	PCT-US93-12388-483	Sequence 483, App	c1096	7	100.0	64	3	US-08-976-413A-296	Sequence 296, App
c1024	7	100.0	51	1	PCT-US96-09472-73	Sequence 73, Appl	c1097	7	100.0	65	1	US-08-053-131-56	Sequence 56, Appl
c1025	7	100.0	51	1	US-08-208-886C-52	Sequence 52, Appl	c1098	7	100.0	65	1	US-08-645-641-56	Sequence 56, Appl
c1026	7	100.0	51	1	US-08-704-744-52	Sequence 52, Appl	c1099	7	100.0	65	1	US-07-853-408A-56	Sequence 56, Appl
c1027	7	100.0	51	1	US-08-469-557-52	Sequence 52, Appl	c1100	7	100.0	65	1	US-08-447-169A-97	Sequence 97, Appl
c1028	7	100.0	51	1	US-08-323-192D-44	Sequence 44, Appl	c1101	7	100.0	65	1	US-08-096-762-56	Sequence 56, Appl
c1029	7	100.0	51	1	US-08-470-887A-43	Sequence 43, Appl	c1102	7	100.0	65	2	US-08-233-012C-97	Sequence 97, Appl
c1030	7	100.0	51	2	US-08-252-508B-43	Sequence 43, Appl	c1103	7	100.0	65	2	US-08-244-434-31	Sequence 31, Appl
c1031	7	100.0	51	2	US-08-290-793B-52	Sequence 52, Appl	c1104	7	100.0	65	2	US-08-308-865-56	Sequence 56, Appl
c1032	7	100.0	51	3	US-09-106-377-43	Sequence 43, Appl	c1105	7	100.0	65	3	US-09-042-353-219	Sequence 219, App
c1033	7	100.0	51	3	US-08-284-516C-26	Sequence 26, Appl	c1106	7	100.0	65	4	US-08-758-417A-67	Sequence 67, Appl
c1034	7	100.0	51	4	US-09-537-911A-26	Sequence 26, Appl	c1107	7	100.0	65	5	PCT-US92-10983-56	Sequence 56, Appl
c1035	7	100.0	51	4	US-09-443-199C-479	Sequence 479, App	c1108	7	100.0	66	3	US-08-284-516C-9	Sequence 9, Appl
c1036	7	100.0	51	4	US-09-443-199C-480	Sequence 480, App	c1109	7	100.0	66	4	US-09-364-539-183	Sequence 183, App
c1037	7	100.0	51	4	US-09-443-199C-481	Sequence 481, App	c1110	7	100.0	66	4	US-09-537-911A-9	Sequence 9, Appl
c1038	7	100.0	51	4	US-09-443-199C-482	Sequence 482, App	c1111	7	100.0	68	1	US-08-105-483-412	Sequence 412, App
c1039	7	100.0	52	1	US-07-647-655C-1	Sequence 1, Appl	c1112	7	100.0	68	1	US-08-709-209-412	Sequence 412, App
c1040	7	100.0	52	1	US-08-641-704-5	Sequence 5, Appl	c1113	7	100.0	68	1	US-08-303-275-120	Sequence 120, App
c1041	7	100.0	52	3	US-09-091-348-2	Sequence 2, Appl	c1114	7	100.0	68	2	US-08-458-101-412	Sequence 73, Appl
c1042	7	100.0	52	3	US-08-976-413A-337	Sequence 337, App	c1115	7	100.0	68	2	US-08-417-210A-73	Sequence 24, Appl
c1043	7	100.0	52	3	US-08-243-367-8	Sequence 8, Appl	c1116	7	100.0	68	3	US-09-029-267-24	Sequence 23, Appl
c1044	7	100.0	52	4	US-08-956-171E-1819	Sequence 1819, Ap	c1117	7	100.0	68	4	US-09-136-159A-73	Sequence 1, Appl
c1045	7	100.0	52	5	PCT-US95-08533-5	Sequence 5, Appl	c1118	7	100.0	69	1	US-08-028-730-1	Sequence 1, Appl
c1046	7	100.0	53	1	US-08-200-924-9	Sequence 9, Appl	c1119	7	100.0	69	1	US-07-973-333-13	Sequence 13, Appl
c1047	7	100.0	53	2	US-08-733-204-9	Sequence 9, Appl	c1120	7	100.0	69	1	US-08-219-012-13	Sequence 13, Appl
c1048	7	100.0	54	2	US-08-503-226B-32	Sequence 32, Appl	c1121	7	100.0	69	2	US-08-560-916-6	Sequence 6, Appl
1049	7	100.0	54	3	US-08-721-458B-32	Sequence 32, Appl	c1122	7	100.0	69	2	US-08-676-841-6	Sequence 6, Appl

c1123	7	100.0	69	3	US-08-687-421-201	Sequence 201, App	1196	7	100.0	75	1	US-08-447-169A-125	Sequence 125, App
c1124	7	100.0	70	1	US-08-434-001-151	Sequence 151, App	1197	7	100.0	75	1	US-08-447-169A-135	Sequence 135, App
c1125	7	100.0	70	1	US-08-433-585-151	Sequence 151, App	1198	7	100.0	75	1	US-08-233-012C-78	Sequence 78, App
c1126	7	100.0	70	1	US-08-434-425-151	Sequence 151, App	1199	7	100.0	75	2	US-08-233-012C-79	Sequence 79, App
c1127	7	100.0	70	2	US-08-437-667-151	Sequence 151, App	1200	7	100.0	75	2	US-08-233-012C-84	Sequence 84, App
c1128	7	100.0	70	3	US-08-906-955-151	Sequence 151, App	1201	7	100.0	75	2	US-08-233-012C-125	Sequence 125, App
c1129	7	100.0	70	3	US-08-945-905-151	Sequence 151, App	1202	7	100.0	75	2	US-08-233-012C-135	Sequence 135, App
c1130	7	100.0	70	4	US-09-396-002A-151	Sequence 151, App	1203	7	100.0	75	2	US-08-918-304A-16	Sequence 16, App
c1131	7	100.0	70	4	US-10-077-319-151	Sequence 151, App	1204	7	100.0	75	2	US-08-918-304A-18	Sequence 18, App
c1132	7	100.0	70	5	PT-US96-06060-151	Sequence 151, App	1205	7	100.0	75	3	US-08-976-413A-338	Sequence 338, App
c1133	7	100.0	71	1	US-07-973-333-20	Sequence 20, App	1206	7	100.0	75	3	US-08-282-936-12	Sequence 12, App
c1134	7	100.0	71	1	US-08-219-012-20	Sequence 20, App	1207	7	100.0	75	3	US-08-687-421-194	Sequence 194, App
1135	7	100.0	71	1	US-08-591-989-34	Sequence 34, App	1208	7	100.0	75	3	US-08-687-421-196	Sequence 196, App
c1136	7	100.0	71	3	US-08-687-421-208	Sequence 208, App	1209	7	100.0	75	3	US-08-687-421-203	Sequence 203, App
1137	7	100.0	71	6	5439679-10	Patent No. 5439679	1210	7	100.0	75	3	US-08-687-421-206	Sequence 206, App
c1138	7	100.0	72	1	US-07-973-333-19	Sequence 19, App	1211	7	100.0	75	3	US-08-687-421-214	Sequence 214, App
c1139	7	100.0	72	1	US-07-973-333-21	Sequence 21, App	1212	7	100.0	75	3	US-08-687-421-215	Sequence 215, App
c1140	7	100.0	72	1	US-07-973-333-22	Sequence 22, App	1213	7	100.0	75	3	US-08-687-421-272	Sequence 272, App
c1141	7	100.0	72	1	US-08-105-483-413	Sequence 413, App	1214	7	100.0	75	3	US-08-687-421-273	Sequence 273, App
c1142	7	100.0	72	1	US-08-219-012-19	Sequence 19, App	1215	7	100.0	75	3	US-08-687-421-274	Sequence 274, App
c1143	7	100.0	72	1	US-08-219-012-21	Sequence 21, App	1216	7	100.0	75	3	US-08-687-421-275	Sequence 275, App
c1144	7	100.0	72	1	US-08-219-012-22	Sequence 22, App	1217	7	100.0	75	3	US-08-687-421-276	Sequence 276, App
c1145	7	100.0	72	1	US-08-430-709-10	Sequence 10, App	1218	7	100.0	75	3	US-03-407-234-16	Sequence 16, App
c1146	7	100.0	72	1	US-08-709-209-413	Sequence 413, App	1219	7	100.0	75	3	US-09-407-234-18	Sequence 18, App
c1147	7	100.0	72	1	US-08-303-275-121	Sequence 121, App	1220	7	100.0	75	3	US-09-229-287A-5	Sequence 5, App
c1148	7	100.0	72	1	US-08-458-101-413	Sequence 413, App	1221	7	100.0	75	4	US-09-364-539-97	Sequence 97, App
1149	7	100.0	72	1	US-08-447-169A-127	Sequence 127, App	1222	7	100.0	75	6	5427929-21	Patent No. 5427929
1150	7	100.0	72	2	US-08-233-012C-127	Sequence 127, App	1223	7	100.0	76	1	US-07-973-333-4	Sequence 4, App
c1151	7	100.0	72	2	US-08-417-210A-74	Sequence 74, App	1224	7	100.0	76	1	US-07-973-333-9	Sequence 9, App
c1152	7	100.0	72	2	US-08-918-304A-10	Sequence 10, App	1225	7	100.0	76	1	US-07-973-333-10	Sequence 10, App
c1153	7	100.0	72	3	US-08-687-421-207	Sequence 207, App	1226	7	100.0	76	1	US-07-973-333-11	Sequence 11, App
c1154	7	100.0	72	3	US-08-687-421-209	Sequence 209, App	1227	7	100.0	76	1	US-07-973-333-12	Sequence 12, App
c1155	7	100.0	72	3	US-08-687-421-210	Sequence 210, App	1228	7	100.0	76	1	US-07-973-333-17	Sequence 17, App
c1156	7	100.0	72	3	US-09-407-234-10	Sequence 10, App	1229	7	100.0	76	1	US-08-219-012-4	Sequence 4, App
c1157	7	100.0	72	4	US-09-314-268-174	Sequence 174, App	1230	7	100.0	76	1	US-08-219-012-9	Sequence 9, App
c1158	7	100.0	72	4	US-08-136-159A-74	Sequence 74, App	1231	7	100.0	76	1	US-08-219-012-10	Sequence 10, App
1159	7	100.0	73	2	US-08-244-434-34	Sequence 34, App	1232	7	100.0	76	1	US-08-219-012-11	Sequence 11, App
c1160	7	100.0	73	4	US-09-314-268-178	Sequence 178, App	1233	7	100.0	76	1	US-08-219-012-12	Sequence 12, App
c1161	7	100.0	74	1	US-07-973-333-5	Sequence 5, App	1234	7	100.0	76	1	US-08-219-012-17	Sequence 17, App
c1162	7	100.0	74	1	US-07-973-333-16	Sequence 16, App	1235	7	100.0	76	1	US-08-384-708A-95	Sequence 95, App
c1163	7	100.0	74	1	US-08-219-012-5	Sequence 5, App	1236	7	100.0	76	1	US-08-430-709-2	Sequence 2, App
c1164	7	100.0	74	1	US-08-219-012-16	Sequence 16, App	1237	7	100.0	76	1	US-08-430-709-3	Sequence 3, App
c1165	7	100.0	74	1	US-08-430-709-17	Sequence 17, App	1238	7	100.0	76	1	US-08-198-670A-33	Sequence 33, App
c1166	7	100.0	74	1	US-08-430-709-19	Sequence 19, App	1239	7	100.0	76	1	US-08-447-169A-57	Sequence 57, App
c1167	7	100.0	74	2	US-08-918-304A-17	Sequence 17, App	1240	7	100.0	76	1	US-08-447-169A-76	Sequence 76, App
c1168	7	100.0	74	2	US-08-918-304A-19	Sequence 19, App	1241	7	100.0	76	1	US-08-447-169A-77	Sequence 77, App
c1169	7	100.0	74	3	US-08-687-421-193	Sequence 193, App	1242	7	100.0	76	1	US-08-447-169A-85	Sequence 85, App
c1170	7	100.0	74	3	US-08-687-421-204	Sequence 204, App	1243	7	100.0	76	1	US-08-447-169A-90	Sequence 90, App
c1171	7	100.0	74	3	US-09-407-234-17	Sequence 17, App	1244	7	100.0	76	1	US-08-447-169A-91	Sequence 91, App
c1172	7	100.0	74	3	US-09-407-234-19	Sequence 19, App	1245	7	100.0	76	1	US-08-447-169A-93	Sequence 93, App
1173	7	100.0	74	4	US-09-364-533-178	Sequence 178, App	1246	7	100.0	76	1	US-08-447-169A-98	Sequence 98, App
1174	7	100.0	75	1	US-08-028-730-2	Sequence 2, App	1247	7	100.0	76	1	US-08-447-169A-99	Sequence 99, App
c1175	7	100.0	75	1	US-07-973-333-6	Sequence 6, App	1248	7	100.0	76	1	US-08-447-169A-100	Sequence 100, App
c1176	7	100.0	75	1	US-07-973-333-7	Sequence 7, App	1249	7	100.0	76	1	US-08-447-169A-101	Sequence 101, App
c1177	7	100.0	75	1	US-07-973-333-8	Sequence 8, App	1250	7	100.0	76	1	US-08-447-169A-102	Sequence 102, App
c1178	7	100.0	75	1	US-07-973-333-15	Sequence 15, App	1251	7	100.0	76	1	US-08-447-169A-111	Sequence 111, App
c1179	7	100.0	75	1	US-07-973-333-26	Sequence 26, App	1252	7	100.0	76	1	US-08-447-169A-112	Sequence 112, App
c1180	7	100.0	75	1	US-08-219-012-6	Sequence 6, App	1253	7	100.0	76	1	US-08-447-169A-113	Sequence 113, App
c1181	7	100.0	75	1	US-08-219-012-7	Sequence 7, App	1254	7	100.0	76	1	US-08-447-169A-114	Sequence 114, App
c1182	7	100.0	75	1	US-08-219-012-8	Sequence 8, App	1255	7	100.0	76	1	US-08-447-169A-115	Sequence 115, App
c1183	7	100.0	75	1	US-08-219-012-15	Sequence 15, App	1256	7	100.0	76	1	US-08-447-169A-116	Sequence 116, App
c1184	7	100.0	75	1	US-08-219-012-26	Sequence 26, App	1257	7	100.0	76	1	US-08-447-169A-117	Sequence 117, App
c1185	7	100.0	75	1	US-08-219-012-27	Sequence 27, App	1258	7	100.0	76	1	US-08-447-169A-118	Sequence 118, App
c1186	7	100.0	75	1	US-08-219-012-84	Sequence 84, App	1259	7	100.0	76	1	US-08-447-169A-119	Sequence 119, App
c1187	7	100.0	75	1	US-08-219-012-85	Sequence 85, App	1260	7	100.0	76	1	US-08-447-169A-120	Sequence 120, App
c1188	7	100.0	75	1	US-08-219-012-86	Sequence 86, App	1261	7	100.0	76	1	US-08-447-169A-121	Sequence 121, App
c1189	7	100.0	75	1	US-08-219-012-87	Sequence 87, App	1262	7	100.0	76	1	US-08-447-169A-122	Sequence 122, App
c1190	7	100.0	75	1	US-08-219-012-88	Sequence 88, App	1263	7	100.0	76	1	US-08-447-169A-123	Sequence 123, App
c1191	7	100.0	75	1	US-08-430-709-16	Sequence 16, App	1264	7	100.0	76	1	US-08-447-169A-124	Sequence 124, App
c1192	7	100.0	75	1	US-08-430-709-18	Sequence 18, App	1265	7	100.0	76	1	US-08-447-169A-126	Sequence 126, App
1193	7	100.0	75	1	US-08-447-169A-78	Sequence 78, App	1266	7	100.0	76	1	US-08-447-169A-128	Sequence 128, App
1194	7	100.0	75	1	US-08-447-169A-79	Sequence 79, App	1267	7	100.0	76	1	US-08-447-169A-129	Sequence 129, App
1195	7	100.0	75	1	US-08-447-169A-84	Sequence 84, App	1268	7	100.0	76	1	US-08-447-169A-130	Sequence 130, App







US-08-458-733B-6

Query Match 100.0%; Score 7; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGACAG 7  
Db 2 TCGACAG 8

RESULT 2

US-08-458-733B-8  
; Sequence 8, Application US/08458733B  
; Patent No. 5861482  
; GENERAL INFORMATION:  
; APPLICANT: Modrich, Paul L.  
; APPLICANT: Su, Shin-San  
; APPLICANT: Au, Karin G.  
; APPLICANT: Lahue, Robert S.  
; APPLICANT: Cooper, Deani L.  
; APPLICANT: Worth, Leroy Jr.  
; TITLE OF INVENTION: METHODS OF ANALYSIS AND  
; TITLE OF INVENTION: MANIPULATION OF DNA  
; TITLE OF INVENTION: UTILIZING MISMATCH REPAIR  
; TITLE OF INVENTION: SYSTEMS  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/458,733B  
; FILING DATE: June 2, 1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/145,837

; FILING DATE: No. 5861482ember 1, 1993  
; APPLICATION NUMBER: 08/002,529  
; FILING DATE: January 11, 1993  
; APPLICATION NUMBER: 07/350,983  
; FILING DATE: May 12, 1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 214/116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear

US-08-458-733B-8

Query Match 100.0%; Score 7; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGACAG 7

Db 2 TCGACAG 8

RESULT 3

5459039-5  
; Patent No. 5459039  
; APPLICANT: MODRICH, PAUL;SU, SHIN-SAN;AU, KARIN G.;  
; LAHUE, ROBERT S.  
; TITLE OF INVENTION: METHODS FOR MAPPING GENETIC MUTATIONS  
; NUMBER OF SEQUENCES: 6  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/334,612  
; FILING DATE: 18-MAR-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 2,529  
; FILING DATE: 11-JAN-1993  
; APPLICATION NUMBER: 350,983  
; FILING DATE: 12-may-1989  
; SEQ ID NO:5:  
; LENGTH: 11  
5459039-5

Query Match 100.0%; Score 7; DB 6; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGACAG 7  
Db 2 TCGACAG 8

RESULT 4

5459039-6  
; Patent No. 5459039  
; APPLICANT: MODRICH, PAUL;SU, SHIN-SAN;AU, KARIN G.;  
; LAHUE, ROBERT S.  
; TITLE OF INVENTION: METHODS FOR MAPPING GENETIC MUTATIONS  
; NUMBER OF SEQUENCES: 6  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/334,612  
; FILING DATE: 18-MAR-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 2,529  
; FILING DATE: 11-JAN-1993  
; APPLICATION NUMBER: 350,983  
; FILING DATE: 12-may-1989  
; SEQ ID NO:6:  
; LENGTH: 11  
5459039-6

Query Match 100.0%; Score 7; DB 6; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGACAG 7  
Db 2 TCGACAG 8

RESULT 5

US-08-030-335-11/c  
; Sequence 11, Application US/08030335  
; Patent No. 5491073  
; GENERAL INFORMATION:  
; APPLICANT: No. 5491073eborn, Matheus H  
; APPLICANT: De Boer, Gerben F  
; TITLE OF INVENTION: Cloning Of Chicken Anaemia DNA  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham  
; STREET: 30 Rockefeller Plaza  
; CITY: New York, New York



STATE: New York  
COUNTRY: USA  
ZIP: 10112  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/030,335  
FILING DATE: 08-MAR-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Moran, Thomas F  
REGISTRATION NUMBER: 16,579  
REFERENCE/DOCKET NUMBER: 43276  
TELEPHONE: (212)-977-9550  
TELEFAX: (212)-977-9809  
TELEX: 422523 COOP UI  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-030-335-11

Query Match 100.0%; Score 7; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCGACAG 7  
DB 12 TCGACAG 6

RESULT 6  
US-08-154-019-18  
Sequence 18, Application US/08154019  
Patent No. 5633076  
GENERAL INFORMATION:  
APPLICANT: Deboer, Herman A.  
APPLICANT: Strijker, Rein  
APPLICANT: Heyneker, Herbert L.  
APPLICANT: Platenburg, Gerald  
APPLICANT: Lee, Sang He  
APPLICANT: Pieper, Frank  
APPLICANT: Krimpenfort, Paul J.A.  
TITLE OF INVENTION: Production of Recombinant Polypeptides  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew  
STREET: One Market Plaza, Steuart Tower, Suite 2000  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/154,019  
FILING DATE: 16-NOV-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/461,333  
FILING DATE: 05-JUN-1995  
APPLICATION NUMBER: US 08/077,788

FILING DATE: 15-JUN-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/895,956  
FILING DATE: 15-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/619,131  
FILING DATE: 27-NOV-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/444,745  
FILING DATE: 01-DEC-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Liebeschultz, Joe O.  
REGISTRATION NUMBER: 37,505  
REFERENCE/DOCKET NUMBER: 16994-003123  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-543-9600  
TELEFAX: 415-543-5043  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-154-019-18  
Query Match 100.0%; Score 7; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 TCGACAG 7  
DB 3 TCGACAG 9  
RESULT 7  
US-08-461-333-18  
Sequence 18, Application US/08461333  
Patent No. 5741957  
GENERAL INFORMATION:  
APPLICANT: Deboer, Herman A.  
APPLICANT: Strijker, Rein  
APPLICANT: Heyneker, Herbert L.  
APPLICANT: Platenburg, Gerald  
APPLICANT: Lee, Sang He  
APPLICANT: Pieper, Frank  
APPLICANT: Krimpenfort, Paul J.A.  
TITLE OF INVENTION: Production of Recombinant Polypeptides  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew  
STREET: One Market Plaza, Steuart Tower, Suite 2000  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/461,333  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/077,788  
FILING DATE: 15-JUN-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/895,956  
FILING DATE: 15-JUN-1992  
PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER: US 07/619,131
; FILING DATE: 27-NOV-1990
; PRIOR APPLICATION DATA: US 07/444,745
; FILING DATE: 01-DEC-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Liebescheutz, Joe O.
; REGISTRATION NUMBER: 37,505
; REFERENCE/DOCKET NUMBER: 16994-003123
; TELEPHONE: 415-543-9600
; TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-461-333-18

Query Match          100.0%; Score 7; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+04;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCGACAG 7
Db      3 TCGACAG 9

RESULT 8
US-08-547-214-17/c
; Sequence 17, Application US/08547214
; Patent No. 5871697
; GENERAL INFORMATION:
; APPLICANT: Rothberg, Jonathan
; APPLICANT: Deem, Michael
; APPLICANT: Simpson, John
; TITLE OF INVENTION: Method for the Determination and
; TITLE OF INVENTION: Classification of DNA Sequences in a Sample Without
; TITLE OF INVENTION: Sequencing
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie and Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/547,214
; FILING DATE: 24-OCT-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7934-015-999
; TELEPHONE: (212)-790-9090
; TELEFAX: (212)-869-8864
; TELEX: 66441 PENNIE
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA

```

```

US-08-547-214-17

Query Match          100.0%; Score 7; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+04;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCGACAG 7
Db     12 TCGACAG 6

RESULT 9
US-08-480-020B-11/c
; Sequence 11, Application US/08480020B
; Patent No. 5932476
; GENERAL INFORMATION:
; APPLICANT: NOTEBORN, MATHEUS H.M.
; APPLICANT: DE BOER, GERDEN F.
; TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RAE-VENTER LAW GROUP
; STREET: 260 SHERIDAN AVENUE, SUITE 400
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,020B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/030,335
; FILING DATE: 08-MAR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/NL91/00165
; FILING DATE: 12-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: NL 9002008
; FILING DATE: 12-SEP-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: KUNG, VIOLA
; REGISTRATION NUMBER: P41,131
; REFERENCE/DOCKET NUMBER: VEOC.002.02US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)328-4400
; TELEFAX: (650)328-4477
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-480-020B-11

Query Match          100.0%; Score 7; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+04;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCGACAG 7
Db     12 TCGACAG 6

RESULT 10
US-08-910-618-11/c
; Sequence 11, Application US/08910618

```

Patent No. 5958424  
GENERAL INFORMATION:  
APPLICANT: NOTEBOEN, MATHEUS H.M.  
APPLICANT: DE BOER, GERDEN P.  
TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSER: RAE-VENTER LAW GROUP  
STREET: 260 SHERIDAN AVENUE, SUITE 400  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/910,618  
FILING DATE: 13-AUG-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/484,939  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: US 08/030,335  
FILING DATE: 08-MAR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/NL91/00165  
FILING DATE: 12-SEP-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: NL 9002008  
FILING DATE: 12-SEP-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Rae-Venter, Barbara  
REGISTRATION NUMBER: 32,750  
REFERENCE/DOCKET NUMBER: VEOC.002.01US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650)328-4400  
TELEFAX: (650)328-4477  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-910-618-11

Query Match 100.0%; Score 7; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7  
Db 12 TCGACAG 6

RESULT 11  
US-08-823B-17/c  
Sequence 17, Application US/08663823B  
Patent No. 5972693  
GENERAL INFORMATION:  
APPLICANT: Rothberg, Jonathan  
APPLICANT: Deem, Michael  
APPLICANT: Simpson, John  
TITLE OF INVENTION: METHOD AND APPARATUS FOR IDENTIFYING  
TITLE OF INVENTION: CLASSIFYING, OR QUANTIFYING DNA SEQUENCES IN A SAMPLE  
TITLE OF INVENTION: WITHOUT SEQUENCING  
NUMBER OF SEQUENCES: 77  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Pennie and Edmonds LLP  
STREET: 1155 Avenue of the Americas

CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/663,823B  
FILING DATE: 14-June-1996  
CLASSIFICATION: 422  
ATTORNEY/AGENT INFORMATION:  
NAME: Misrock, S. Leslie  
REGISTRATION NUMBER: 18,872  
REFERENCE/DOCKET NUMBER: 7934-033  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-663-823B-17

Query Match 100.0%; Score 7; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7  
Db 12 TCGACAG 6

RESULT 12  
US-08-464-167-18  
Sequence 18, Application US/08464167  
Patent No. 6013857  
GENERAL INFORMATION:  
APPLICANT: Deboer, Herman A.  
APPLICANT: Strijker, Rein  
APPLICANT: Heyneker, Herbert L.  
APPLICANT: Platenburg, Gerald  
APPLICANT: Lee, Sang He  
APPLICANT: Pieper, Frank  
APPLICANT: Krimpenfort, Paul J.A.  
TITLE OF INVENTION: Production of Recombinant Polypeptides  
TITLE OF INVENTION: by Bovine Species and Transgenic Methods  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Townsend and Townsend and Crew  
STREET: One Market Plaza, Steuart Tower, Suite 2000  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,167  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/077,788  
FILING DATE: 15-JUN-1993

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/895,956
; FILING DATE: 15-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/619,131
; FILING DATE: 27-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/444,745
; FILING DATE: 01-DEC-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Liebescheutz, Joe O.
; REGISTRATION NUMBER: 37,505
; REFERENCE/DOCKET NUMBER: 16994-003124
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-543-9600
; TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-464-167-18

Query Match 100.0%; Score 7; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+04;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7
Db 3 TCGACAG 9

RESULT 13
US-09-158-313-18
; Sequence 18, Application US/09158313
; Patent No. 6066725
; GENERAL INFORMATION:
; APPLICANT: Deboer, Herman A.
; APPLICANT: Strijker, Rein
; APPLICANT: Heyneker, Herbert L.
; APPLICANT: Platenburg, Gerald
; APPLICANT: Lee, Sang He
; APPLICANT: Pieper, Frank
; APPLICANT: Krimpenfort, Paul J.A.
; TITLE OF INVENTION: Production of Recombinant Polypeptides
; TITLE OF INVENTION: by Bovine Species and Transgenic Methods
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/158,313
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION NUMBER: 08/476,798
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/895,956
; FILING DATE: 15-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/619,131
; FILING DATE: 27-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/444,745
; FILING DATE: 01-DEC-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Liebescheutz, Joe O.
; REGISTRATION NUMBER: 37,505
; REFERENCE/DOCKET NUMBER: 16994-003124
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-543-9600
; TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-464-167-18

Query Match 100.0%; Score 7; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+04;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7
Db 3 TCGACAG 9

RESULT 14
US-08-480-173A-21
; Sequence 21, Application US/08480173A
; Patent No. 6072049
; GENERAL INFORMATION:
; APPLICANT: Thoma, Hans A
; TITLE OF INVENTION: HEPATITIS B SURFACE ANTIGEN VACCINE
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Popovich & Wiles, P.A.
; STREET: 80 S. 8th Street, Suite 1902
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,173A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Popovich, Thomas E
; REGISTRATION NUMBER: 30,099
; REFERENCE/DOCKET NUMBER: MED1003USD4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-334-8991
; TELEFAX: 612-334-8994
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (synthetic)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..4
; OTHER INFORMATION: /note= "Nucleotides 1-4 form a
; OTHER INFORMATION: single-stranded "sticky end"
; FEATURE:
```

```

; FILING DATE: 27-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/444,745
; FILING DATE: 01-DEC-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Liebescheutz, Joe O.
; REGISTRATION NUMBER: 37,505
; REFERENCE/DOCKET NUMBER: 16994-003125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-543-9600
; TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-09-158-313-18

Query Match 100.0%; Score 7; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+04;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7
Db 3 TCGACAG 9

RESULT 14
US-08-480-173A-21
; Sequence 21, Application US/08480173A
; Patent No. 6072049
; GENERAL INFORMATION:
; APPLICANT: Thoma, Hans A
; TITLE OF INVENTION: HEPATITIS B SURFACE ANTIGEN VACCINE
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Popovich & Wiles, P.A.
; STREET: 80 S. 8th Street, Suite 1902
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,173A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Popovich, Thomas E
; REGISTRATION NUMBER: 30,099
; REFERENCE/DOCKET NUMBER: MED1003USD4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-334-8991
; TELEFAX: 612-334-8994
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (synthetic)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..4
; OTHER INFORMATION: /note= "Nucleotides 1-4 form a
; OTHER INFORMATION: single-stranded "sticky end"
; FEATURE:
```

NAME/KEY: misc feature  
LOCATION: 5..12  
OTHER INFORMATION: /note= "Adapter sequence results  
OTHER INFORMATION: from oligonucleotide duplex formation with nucleotides 5-12 c  
OTHER INFORMATION: SEQ ID NO: 22"  
US-08-480-173A-21

Query Match 100.0%; Score 7; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7  
|||||  
Db 1 TCGACAG 7

RESULT 15  
US-08-484-408A-21  
; Sequence 21, Application US/08484408A  
; Patent No. 6117653  
; GENERAL INFORMATION:  
; APPLICANT: Thoma, Hans A  
; TITLE OF INVENTION: HEPATITIS B SURFACE ANTIGEN VACCINE  
; NUMBER OF SEQUENCES: 56  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Popovich & Wiles, P.A.  
; STREET: 80 S. 8th Street, Suite 1902  
; CITY: Minneapolis  
; STATE: MN  
; COUNTRY: USA  
; ZIP: 55402

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/484,408A  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Popovich, Thomas E  
; REGISTRATION NUMBER: 30,099  
; REFERENCE/DOCKET NUMBER: MED1003USD4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 612-334-8991  
; TELEFAX: 612-334-8994

INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (synthetic)  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1..4  
; OTHER INFORMATION: /note= "Nucleotides 1-4 form a  
; OTHER INFORMATION: single-stranded "sticky end"  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 5..12  
; OTHER INFORMATION: /note= "Adapter sequence results  
; OTHER INFORMATION: from oligonucleotide duplex formation with nucleotides 5-12 c  
; OTHER INFORMATION: SEQ ID NO: 22"

US-08-484-408A-21

Query Match 100.0%; Score 7; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 1.7e+04;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGACAG 7  
|||||

Db 1 TCGACAG 7

Search completed: September 1, 2004, 02:34:53  
Job time : 56.5167 secs



101	6	100.0	14	2	US-08-485-689-81	Sequence 81, Appl	174	6	100.0	15	3	US-09-064-156A-77	Sequence 77, Appl
102	6	100.0	14	2	US-08-476-021A-79	Sequence 79, Appl	175	6	100.0	15	3	US-09-064-156A-231	Sequence 231, Appl
103	6	100.0	14	2	US-08-476-021A-81	Sequence 81, Appl	176	6	100.0	15	3	US-09-071-845-20	Sequence 20, Appl
104	6	100.0	14	2	US-08-478-608B-79	Sequence 79, Appl	177	6	100.0	15	3	US-09-071-845-21	Sequence 21, Appl
105	6	100.0	14	2	US-08-478-608B-81	Sequence 81, Appl	178	6	100.0	15	3	US-09-071-845-22	Sequence 22, Appl
106	6	100.0	14	2	US-08-828-584-6	Sequence 6, Appl	179	6	100.0	15	3	US-09-071-845-76	Sequence 76, Appl
107	6	100.0	14	2	US-08-927-722-5	Sequence 5, Appl	180	6	100.0	15	3	US-09-071-845-77	Sequence 77, Appl
108	6	100.0	14	3	US-08-476-423A-79	Sequence 79, Appl	181	6	100.0	15	3	US-09-071-845-78	Sequence 78, Appl
109	6	100.0	14	3	US-08-476-423A-81	Sequence 81, Appl	182	6	100.0	15	3	US-09-071-845-706	Sequence 706, Appl
110	6	100.0	14	4	US-08-378-069A-5	Sequence 5, Appl	183	6	100.0	15	3	US-09-038-073-3	Sequence 3, Appl
111	6	100.0	14	4	US-09-662-402A-1	Sequence 1, Appl	184	6	100.0	15	3	US-09-038-073-92	Sequence 92, Appl
112	6	100.0	14	4	US-08-535-249-110	Sequence 110, Appl	185	6	100.0	15	3	US-09-038-073-93	Sequence 93, Appl
113	6	100.0	14	4	US-09-447-349-3	Sequence 3, Appl	186	6	100.0	15	3	US-09-038-073-94	Sequence 94, Appl
114	6	100.0	14	4	US-08-857-636-79	Sequence 79, Appl	187	6	100.0	15	3	US-09-038-073-95	Sequence 95, Appl
115	6	100.0	14	4	US-08-874-601-18	Sequence 18, Appl	188	6	100.0	15	3	US-09-038-073-101	Sequence 101, Appl
116	6	100.0	15	1	US-08-182-968A-74	Sequence 74, Appl	189	6	100.0	15	3	US-09-038-073-102	Sequence 102, Appl
117	6	100.0	15	1	US-08-182-968A-75	Sequence 75, Appl	190	6	100.0	15	3	US-09-038-073-103	Sequence 103, Appl
118	6	100.0	15	1	US-08-182-968A-76	Sequence 76, Appl	191	6	100.0	15	3	US-09-038-073-104	Sequence 104, Appl
119	6	100.0	15	1	US-08-182-968A-77	Sequence 77, Appl	192	6	100.0	15	3	US-09-038-073-626	Sequence 626, Appl
120	6	100.0	15	1	US-08-182-968A-231	Sequence 231, Appl	193	6	100.0	15	3	US-09-038-073-628	Sequence 628, Appl
121	6	100.0	15	1	US-08-319-492B-148	Sequence 148, Appl	194	6	100.0	15	3	US-09-038-073-654	Sequence 654, Appl
122	6	100.0	15	1	US-08-319-492B-149	Sequence 149, Appl	195	6	100.0	15	3	US-09-038-073-1294	Sequence 1294, Appl
123	6	100.0	15	1	US-08-319-492B-150	Sequence 150, Appl	196	6	100.0	15	3	US-09-038-073-1295	Sequence 1295, Appl
124	6	100.0	15	1	US-08-319-492B-372	Sequence 372, Appl	197	6	100.0	15	3	US-09-038-073-1328	Sequence 1328, Appl
125	6	100.0	15	1	US-08-319-492B-421	Sequence 421, Appl	198	6	100.0	15	3	US-09-038-073-1329	Sequence 1329, Appl
126	6	100.0	15	1	US-08-373-124A-80	Sequence 80, Appl	199	6	100.0	15	3	US-09-038-073-1330	Sequence 1330, Appl
127	6	100.0	15	1	US-08-291-932A-10	Sequence 10, Appl	200	6	100.0	15	3	US-09-038-073-1331	Sequence 1331, Appl
128	6	100.0	15	1	US-08-291-932A-11	Sequence 11, Appl	201	6	100.0	15	3	US-09-038-073-1332	Sequence 1332, Appl
129	6	100.0	15	1	US-08-135-809A-3	Sequence 3, Appl	202	6	100.0	15	3	US-09-038-073-1729	Sequence 1729, Appl
130	6	100.0	15	1	US-08-435-628-80	Sequence 80, Appl	203	6	100.0	15	3	US-09-038-073-1730	Sequence 1730, Appl
131	6	100.0	15	2	US-08-292-620A-20	Sequence 20, Appl	204	6	100.0	15	3	US-09-038-073-1731	Sequence 1731, Appl
132	6	100.0	15	2	US-08-292-620A-21	Sequence 21, Appl	205	6	100.0	15	3	US-09-038-073-1732	Sequence 1732, Appl
133	6	100.0	15	2	US-08-292-620A-22	Sequence 22, Appl	206	6	100.0	15	3	US-09-180-437-193	Sequence 193, Appl
134	6	100.0	15	2	US-08-292-620A-76	Sequence 76, Appl	207	6	100.0	15	3	US-09-081-646-136	Sequence 136, Appl
135	6	100.0	15	2	US-08-292-620A-77	Sequence 77, Appl	208	6	100.0	15	4	US-09-081-646-240	Sequence 240, Appl
136	6	100.0	15	2	US-08-292-620A-78	Sequence 78, Appl	209	6	100.0	15	4	US-09-081-646-367	Sequence 367, Appl
137	6	100.0	15	2	US-08-292-620A-706	Sequence 706, Appl	210	6	100.0	15	4	US-09-081-646-637	Sequence 637, Appl
138	6	100.0	15	2	US-08-505-377-16	Sequence 16, Appl	211	6	100.0	15	4	US-09-081-646-701	Sequence 701, Appl
139	6	100.0	15	2	US-08-774-306A-74	Sequence 74, Appl	212	6	100.0	15	4	US-09-081-646-800	Sequence 800, Appl
140	6	100.0	15	2	US-08-774-306A-75	Sequence 75, Appl	213	6	100.0	15	4	US-09-081-646-849	Sequence 849, Appl
141	6	100.0	15	2	US-08-774-306A-76	Sequence 76, Appl	214	6	100.0	15	4	US-09-081-646-849	Sequence 849, Appl
142	6	100.0	15	2	US-08-774-306A-77	Sequence 77, Appl	215	6	100.0	15	4	US-09-055-210-16	Sequence 16, Appl
143	6	100.0	15	2	US-08-774-306A-231	Sequence 231, Appl	216	6	100.0	15	4	US-09-297-928-24	Sequence 24, Appl
144	6	100.0	15	2	US-08-585-684B-3	Sequence 3, Appl	217	6	100.0	15	4	US-09-297-928-25	Sequence 25, Appl
145	6	100.0	15	2	US-08-585-684B-92	Sequence 92, Appl	218	6	100.0	15	4	US-09-043-816B-30	Sequence 30, Appl
146	6	100.0	15	2	US-08-585-684B-93	Sequence 93, Appl	219	6	100.0	15	4	US-08-896-406-2	Sequence 2, Appl
147	6	100.0	15	2	US-08-585-684B-94	Sequence 94, Appl	220	6	100.0	15	4	US-09-641-652-30	Sequence 30, Appl
148	6	100.0	15	2	US-08-585-684B-95	Sequence 95, Appl	221	6	100.0	15	4	US-09-641-652-31	Sequence 31, Appl
149	6	100.0	15	2	US-08-585-684B-101	Sequence 101, Appl	222	6	100.0	15	4	US-09-306-653-32	Sequence 32, Appl
150	6	100.0	15	2	US-08-585-684B-102	Sequence 102, Appl	223	6	100.0	15	4	US-09-306-653-46	Sequence 46, Appl
151	6	100.0	15	2	US-08-585-684B-103	Sequence 103, Appl	224	6	100.0	15	4	US-09-621-275-43	Sequence 43, Appl
152	6	100.0	15	2	US-08-585-684B-104	Sequence 104, Appl	225	6	100.0	15	4	US-09-621-275-57	Sequence 57, Appl
153	6	100.0	15	2	US-08-585-684B-626	Sequence 626, Appl	226	6	100.0	15	4	US-09-621-275-58	Sequence 58, Appl
154	6	100.0	15	2	US-08-585-684B-627	Sequence 627, Appl	227	6	100.0	15	6	5182195-60	Patent No. 5182195
155	6	100.0	15	2	US-08-585-684B-628	Sequence 628, Appl	228	6	100.0	15	6	US-08-235-503B-48	Sequence 48, Appl
156	6	100.0	15	2	US-08-585-684B-654	Sequence 654, Appl	229	6	100.0	16	1	US-08-231-227-8	Sequence 8, Appl
157	6	100.0	15	2	US-08-585-684B-1294	Sequence 1294, Appl	230	6	100.0	16	1	US-08-245-742A-6	Sequence 6, Appl
158	6	100.0	15	2	US-08-585-684B-1295	Sequence 1295, Appl	231	6	100.0	16	1	US-08-245-742A-7	Sequence 7, Appl
159	6	100.0	15	2	US-08-585-684B-1328	Sequence 1328, Appl	232	6	100.0	16	1	US-08-245-742A-8	Sequence 8, Appl
160	6	100.0	15	2	US-08-585-684B-1329	Sequence 1329, Appl	233	6	100.0	16	1	US-08-245-742A-9	Sequence 9, Appl
161	6	100.0	15	2	US-08-585-684B-1330	Sequence 1330, Appl	234	6	100.0	16	1	US-08-245-742A-10	Sequence 10, Appl
162	6	100.0	15	2	US-08-585-684B-1331	Sequence 1331, Appl	235	6	100.0	16	1	US-08-245-742A-11	Sequence 11, Appl
163	6	100.0	15	2	US-08-585-684B-1332	Sequence 1332, Appl	236	6	100.0	16	1	US-08-245-742A-12	Sequence 12, Appl
164	6	100.0	15	2	US-08-585-684B-1729	Sequence 1729, Appl	237	6	100.0	16	1	US-08-753-147-126	Sequence 126, Appl
165	6	100.0	15	2	US-08-585-684B-1730	Sequence 1730, Appl	238	6	100.0	16	1	US-08-753-147-150	Sequence 150, Appl
166	6	100.0	15	2	US-08-585-684B-1731	Sequence 1731, Appl	239	6	100.0	16	1	US-08-753-147-194	Sequence 194, Appl
167	6	100.0	15	2	US-08-585-684B-1732	Sequence 1732, Appl	240	6	100.0	16	1	US-08-465-483-6	Sequence 6, Appl
168	6	100.0	15	2	US-08-952-597-3	Sequence 3, Appl	241	6	100.0	16	1	US-08-465-483-7	Sequence 7, Appl
169	6	100.0	15	2	US-08-952-597-6	Sequence 6, Appl	242	6	100.0	16	1	US-08-465-483-8	Sequence 8, Appl
170	6	100.0	15	3	US-08-798-289-16	Sequence 16, Appl	243	6	100.0	16	1	US-08-465-483-9	Sequence 9, Appl
171	6	100.0	15	3	US-09-064-156A-74	Sequence 74, Appl	244	6	100.0	16	1	US-08-465-483-10	Sequence 10, Appl
172	6	100.0	15	3	US-09-064-156A-75	Sequence 75, Appl	245	6	100.0	16	1	US-08-465-483-11	Sequence 11, Appl
173	6	100.0	15	3	US-09-064-156A-76	Sequence 76, Appl	246	6	100.0	16	1	US-08-465-483-12	Sequence 12, Appl

247	6	100.0	16	2	US-08-485-689-56	Sequence 56, Appl	320	6	100.0	17	1	US-08-390-850-501	Sequence 501, App	
248	6	100.0	16	2	US-08-485-689-78	Sequence 78, Appl	321	6	100.0	17	1	US-08-390-850-502	Sequence 502, App	
249	6	100.0	16	2	US-08-485-689-80	Sequence 80, Appl	322	6	100.0	17	1	US-08-390-850-535	Sequence 535, App	
250	6	100.0	16	2	US-08-476-021A-56	Sequence 56, Appl	323	6	100.0	17	1	US-08-390-850-536	Sequence 536, App	
251	6	100.0	16	2	US-08-476-021A-78	Sequence 78, Appl	324	6	100.0	17	1	US-08-390-850-537	Sequence 537, App	
252	6	100.0	16	2	US-08-476-021A-80	Sequence 80, Appl	325	6	100.0	17	1	US-08-390-850-538	Sequence 538, App	
253	6	100.0	16	2	US-08-281-423-1	Sequence 1, Appl	326	6	100.0	17	1	US-08-390-850-539	Sequence 539, App	
254	6	100.0	16	2	US-08-281-423-2	Sequence 2, Appl	327	6	100.0	17	1	US-08-390-850-539	Sequence 539, App	
255	6	100.0	16	2	US-08-478-608B-56	Sequence 56, Appl	328	6	100.0	17	1	US-08-373-124A-246	Sequence 246, App	
256	6	100.0	16	2	US-08-478-608B-78	Sequence 78, Appl	329	6	100.0	17	1	US-08-373-124A-264	Sequence 264, App	
257	6	100.0	16	2	US-08-478-608B-80	Sequence 80, Appl	330	6	100.0	17	1	US-08-373-124A-266	Sequence 266, App	
258	6	100.0	16	2	US-08-954-210-50	Sequence 50, Appl	c	330	6	100.0	17	1	US-08-373-124A-810	Sequence 810, App
259	6	100.0	16	3	US-08-913-833-57	Sequence 57, Appl	c	331	6	100.0	17	1	US-08-373-124A-812	Sequence 812, App
260	6	100.0	16	3	US-08-913-833-58	Sequence 58, Appl	332	6	100.0	17	1	US-08-373-124A-936	Sequence 936, App	
261	6	100.0	16	3	US-08-923-505A-31	Sequence 31, Appl	333	6	100.0	17	1	US-08-373-124A-938	Sequence 938, App	
262	6	100.0	16	3	US-08-876-996-6	Sequence 6, Appl	334	6	100.0	17	1	US-08-373-124A-940	Sequence 940, App	
263	6	100.0	16	3	US-08-876-996-7	Sequence 7, Appl	335	6	100.0	17	1	US-08-373-124A-942	Sequence 942, App	
264	6	100.0	16	3	US-08-876-996-8	Sequence 8, Appl	336	6	100.0	17	1	US-08-373-124A-1283	Sequence 1283, App	
265	6	100.0	16	3	US-08-876-996-9	Sequence 9, Appl	337	6	100.0	17	1	US-08-373-124A-1285	Sequence 1285, App	
266	6	100.0	16	3	US-08-876-996-10	Sequence 10, Appl	338	6	100.0	17	1	US-08-373-124A-1287	Sequence 1287, App	
267	6	100.0	16	3	US-08-876-996-11	Sequence 11, Appl	339	6	100.0	17	1	US-08-373-124A-1289	Sequence 1289, App	
268	6	100.0	16	3	US-08-876-996-12	Sequence 12, Appl	340	6	100.0	17	1	US-08-373-124A-1291	Sequence 1291, App	
269	6	100.0	16	3	US-08-476-423A-56	Sequence 56, Appl	c	341	6	100.0	17	1	US-08-373-124A-1433	Sequence 1433, App
270	6	100.0	16	3	US-08-476-423A-78	Sequence 78, Appl	342	6	100.0	17	1	US-08-373-124A-1661	Sequence 1661, App	
271	6	100.0	16	3	US-08-476-423A-80	Sequence 80, Appl	343	6	100.0	17	1	US-08-373-124A-1663	Sequence 1663, App	
272	6	100.0	16	3	US-09-253-341-31	Sequence 31, Appl	344	6	100.0	17	1	US-08-373-124A-1665	Sequence 1665, App	
273	6	100.0	16	3	US-08-192-946-30	Sequence 30, Appl	345	6	100.0	17	1	US-08-373-124A-1667	Sequence 1667, App	
274	6	100.0	16	3	US-09-253-331A-31	Sequence 31, Appl	346	6	100.0	17	1	US-08-373-124A-1669	Sequence 1669, App	
275	6	100.0	16	3	US-09-377-612-9	Sequence 9, Appl	c	347	6	100.0	17	1	US-08-373-124A-1889	Sequence 1889, App
276	6	100.0	16	3	US-09-377-612-12	Sequence 12, Appl	c	348	6	100.0	17	1	US-08-373-124A-1891	Sequence 1891, App
277	6	100.0	16	3	US-09-377-612-15	Sequence 15, Appl	349	6	100.0	17	1	US-08-373-124A-2303	Sequence 2303, App	
278	6	100.0	16	4	US-09-054-832-1	Sequence 1, Appl	350	6	100.0	17	1	US-08-373-124A-2305	Sequence 2305, App	
279	6	100.0	16	4	US-09-580-794C-57	Sequence 57, Appl	351	6	100.0	17	1	US-08-373-124A-2307	Sequence 2307, App	
280	6	100.0	16	4	US-09-580-794C-58	Sequence 58, Appl	352	6	100.0	17	1	US-08-373-124A-2309	Sequence 2309, App	
281	6	100.0	16	4	US-08-943-607-1	Sequence 1, Appl	353	6	100.0	17	1	US-08-373-124A-2311	Sequence 2311, App	
282	6	100.0	16	4	US-09-225-645-1	Sequence 2, Appl	354	6	100.0	17	1	US-08-373-124A-2487	Sequence 2487, App	
283	6	100.0	16	4	US-09-225-645-2	Sequence 2, Appl	355	6	100.0	17	1	US-08-373-124A-2489	Sequence 2489, App	
284	6	100.0	16	4	US-09-043-816E-43	Sequence 43, Appl	356	6	100.0	17	1	US-08-373-124A-2491	Sequence 2491, App	
285	6	100.0	16	4	US-09-527-223-23	Sequence 23, Appl	357	6	100.0	17	1	US-08-373-124A-2493	Sequence 2493, App	
286	6	100.0	16	4	US-08-535-249-109	Sequence 109, App	358	6	100.0	17	1	US-08-435-634-499	Sequence 499, App	
287	6	100.0	16	4	US-09-431-419A-50	Sequence 50, Appl	359	6	100.0	17	1	US-08-435-634-500	Sequence 500, App	
288	6	100.0	16	4	US-09-506-286B-35	Sequence 35, Appl	360	6	100.0	17	1	US-08-435-634-501	Sequence 501, App	
289	6	100.0	16	4	US-09-527-030G-105	Sequence 105, App	361	6	100.0	17	1	US-08-435-634-502	Sequence 502, App	
290	6	100.0	16	4	US-09-640-953-1	Sequence 1, Appl	362	6	100.0	17	1	US-08-435-634-535	Sequence 535, App	
291	6	100.0	16	4	US-09-916-956A-31	Sequence 31, Appl	363	6	100.0	17	1	US-08-435-634-536	Sequence 536, App	
292	6	100.0	16	4	US-09-873-873-31	Sequence 31, Appl	364	6	100.0	17	1	US-08-435-634-537	Sequence 537, App	
293	6	100.0	16	4	US-09-371-772B-5681	Sequence 5681, App	365	6	100.0	17	1	US-08-435-634-538	Sequence 538, App	
294	6	100.0	16	4	US-09-371-772B-5719	Sequence 5719, App	366	6	100.0	17	1	US-08-435-634-539	Sequence 539, App	
295	6	100.0	16	4	US-09-371-772B-5760	Sequence 5760, App	c	367	6	100.0	17	1	US-08-758-306-167	Sequence 167, App
296	6	100.0	16	4	US-09-371-772B-5896	Sequence 5896, App	c	368	6	100.0	17	1	US-08-758-306-169	Sequence 169, App
297	6	100.0	16	4	US-09-371-772B-5970	Sequence 5970, App	369	6	100.0	17	1	US-08-758-306-249	Sequence 249, App	
298	6	100.0	16	4	US-09-371-772B-5971	Sequence 5971, App	370	6	100.0	17	1	US-08-758-306-251	Sequence 251, App	
299	6	100.0	16	4	US-09-371-772B-5994	Sequence 5994, App	371	6	100.0	17	1	US-08-758-306-253	Sequence 253, App	
300	6	100.0	16	4	US-09-371-772B-5996	Sequence 5996, App	372	6	100.0	17	1	US-08-758-306-255	Sequence 255, App	
301	6	100.0	16	4	US-09-371-772B-5996	Sequence 5996, App	373	6	100.0	17	1	US-08-758-306-491	Sequence 491, App	
302	6	100.0	16	4	US-09-371-772B-6013	Sequence 6013, App	374	6	100.0	17	1	US-08-758-306-493	Sequence 493, App	
303	6	100.0	16	4	US-09-371-772B-6980	Sequence 6980, App	375	6	100.0	17	1	US-08-758-306-495	Sequence 495, App	
304	6	100.0	16	4	US-09-762-861B-35	Sequence 35, Appl	376	6	100.0	17	1	US-08-758-306-497	Sequence 497, App	
305	6	100.0	16	4	US-10-065-133A-35	Sequence 35, Appl	c	377	6	100.0	17	1	US-08-435-628-246	Sequence 246, App
306	6	100.0	16	5	PCT-US94-05700-6	Sequence 6, Appl	378	6	100.0	17	1	US-08-435-628-264	Sequence 264, App	
307	6	100.0	16	5	PCT-US94-05700-7	Sequence 7, Appl	379	6	100.0	17	1	US-08-435-628-266	Sequence 266, App	
308	6	100.0	16	5	PCT-US94-05700-8	Sequence 8, Appl	c	380	6	100.0	17	1	US-08-435-628-810	Sequence 810, App
309	6	100.0	16	5	PCT-US94-05700-9	Sequence 9, Appl	c	381	6	100.0	17	1	US-08-435-628-812	Sequence 812, App
310	6	100.0	16	5	PCT-US94-05700-10	Sequence 10, Appl	382	6	100.0	17	1	US-08-435-628-936	Sequence 936, App	
311	6	100.0	16	5	PCT-US94-05700-11	Sequence 11, Appl	383	6	100.0	17	1	US-08-435-628-938	Sequence 938, App	
312	6	100.0	16	5	PCT-US94-05700-12	Sequence 12, Appl	384	6	100.0	17	1	US-08-435-628-940	Sequence 940, App	
313	6	100.0	16	5	PCT-US95-04632-8	Sequence 8, Appl	385	6	100.0	17	1	US-08-435-628-942	Sequence 942, App	
314	6	100.0	16	5	PCT-US95-05265-48	Sequence 48, Appl	386	6	100.0	17	1	US-08-435-628-1283	Sequence 1283, App	
315	6	100.0	17	1	US-08-055-390-12	Sequence 12, Appl	387	6	100.0	17	1	US-08-435-628-1285	Sequence 1285, App	
316	6	100.0	17	1	US-08-281-940-29	Sequence 29, Appl	388	6	100.0	17	1	US-08-435-628-1287	Sequence 1287, App	
317	6	100.0	17	1	US-08-281-940-59	Sequence 59, Appl	389	6	100.0	17	1	US-08-435-628-1289	Sequence 1289, App	
318	6	100.0	17	1	US-08-390-850-499	Sequence 499, App	390	6	100.0	17	1	US-08-435-628-1291	Sequence 1291, App	
319	6	100.0	17	1	US-08-390-850-500	Sequence 500, App	c	391	6	100.0	17	1	US-08-435-628-1433	Sequence 1433, App
							392	6	100.0	17	1	US-08-435-628-1661	Sequence 1661, App	



393	6	100.0	17	1	US-08-435-628-1663	Sequence 1663, Ap	466	6	100.0	17	4	US-08-584-040-2483	Sequence 2483, Ap
394	6	100.0	17	1	US-08-435-628-1665	Sequence 1665, Ap	467	6	100.0	17	4	US-08-584-040-2484	Sequence 2484, Ap
395	6	100.0	17	1	US-08-435-628-1667	Sequence 1667, Ap	468	6	100.0	17	4	US-08-584-040-2485	Sequence 2485, Ap
396	6	100.0	17	1	US-08-435-628-1669	Sequence 1669, Ap	469	6	100.0	17	4	US-08-584-040-2486	Sequence 2486, Ap
397	6	100.0	17	1	US-08-435-628-1889	Sequence 1889, Ap	c 470	6	100.0	17	4	US-08-584-040-2672	Sequence 2672, Ap
c 398	6	100.0	17	1	US-08-435-628-1891	Sequence 1891, Ap	c 471	6	100.0	17	4	US-08-584-040-2673	Sequence 2673, Ap
399	6	100.0	17	1	US-08-435-628-2303	Sequence 2303, Ap	472	6	100.0	17	4	US-08-584-040-3801	Sequence 3801, Ap
400	6	100.0	17	1	US-08-435-628-2305	Sequence 2305, Ap	473	6	100.0	17	4	US-08-584-040-3802	Sequence 3802, Ap
401	6	100.0	17	1	US-08-435-628-2307	Sequence 2307, Ap	474	6	100.0	17	4	US-08-584-040-3803	Sequence 3803, Ap
402	6	100.0	17	1	US-08-435-628-2309	Sequence 2309, Ap	475	6	100.0	17	4	US-08-584-040-3804	Sequence 3804, Ap
403	6	100.0	17	1	US-08-435-628-2311	Sequence 2311, Ap	c 476	6	100.0	17	4	US-08-584-040-3827	Sequence 3827, Ap
404	6	100.0	17	1	US-08-435-628-2487	Sequence 2487, Ap	c 477	6	100.0	17	4	US-08-584-040-3828	Sequence 3828, Ap
405	6	100.0	17	1	US-08-435-628-2489	Sequence 2489, Ap	478	6	100.0	17	4	US-08-584-040-3868	Sequence 3868, Ap
406	6	100.0	17	1	US-08-435-628-2491	Sequence 2491, Ap	479	6	100.0	17	4	US-08-584-040-3869	Sequence 3869, Ap
407	6	100.0	17	1	US-08-435-628-2493	Sequence 2493, Ap	480	6	100.0	17	4	US-08-584-040-3870	Sequence 3870, Ap
408	6	100.0	17	2	US-08-766-677-5	Sequence 5, Appli	481	6	100.0	17	4	US-08-584-040-4198	Sequence 4198, Ap
409	6	100.0	17	2	US-08-569-166-19	Sequence 19, Appli	482	6	100.0	17	4	US-08-584-040-4199	Sequence 4199, Ap
c 410	6	100.0	17	2	US-08-710-134-29	Sequence 29, Appli	483	6	100.0	17	4	US-08-584-040-4200	Sequence 4200, Ap
c 411	6	100.0	17	2	US-08-710-134-59	Sequence 59, Appli	484	6	100.0	17	4	US-08-584-040-4201	Sequence 4201, Ap
c 412	6	100.0	17	2	US-08-292-620A-1750	Sequence 1750, Ap	c 485	6	100.0	17	4	US-08-584-040-5428	Sequence 5428, Ap
c 413	6	100.0	17	2	US-08-292-620A-1789	Sequence 1789, Ap	486	6	100.0	17	4	US-08-584-040-5428	Sequence 5428, Ap
c 414	6	100.0	17	2	US-08-292-620A-1806	Sequence 1806, Ap	487	6	100.0	17	4	US-08-584-040-5772	Sequence 5772, Ap
c 415	6	100.0	17	2	US-08-292-620A-1817	Sequence 1817, Ap	488	6	100.0	17	4	US-08-584-040-5773	Sequence 5773, Ap
c 416	6	100.0	17	2	US-08-485-885-29	Sequence 29, Appli	489	6	100.0	17	4	US-08-584-040-5774	Sequence 5774, Ap
c 417	6	100.0	17	2	US-08-485-885-59	Sequence 59, Appli	c 490	6	100.0	17	4	US-08-584-040-7440	Sequence 7440, Ap
c 418	6	100.0	17	2	US-08-843-951-5	Sequence 5, Appli	c 491	6	100.0	17	4	US-08-584-040-7483	Sequence 7483, Ap
c 419	6	100.0	17	2	US-08-450-905B-142	Sequence 142, App	492	6	100.0	17	4	US-08-584-040-7895	Sequence 7895, Ap
c 420	6	100.0	17	2	US-08-737-716-6	Sequence 6, Appli	493	6	100.0	17	4	US-08-584-040-7896	Sequence 7896, Ap
c 421	6	100.0	17	3	US-07-982-759F-142	Sequence 142, App	494	6	100.0	17	4	US-08-584-040-7897	Sequence 7897, Ap
c 422	6	100.0	17	3	US-09-133-717-16	Sequence 16, Appli	495	6	100.0	17	4	US-08-584-040-7898	Sequence 7898, Ap
c 423	6	100.0	17	3	US-08-913-833-59	Sequence 59, Appli	496	6	100.0	17	4	US-08-584-040-7899	Sequence 7899, Ap
c 424	6	100.0	17	3	US-08-606-505B-57	Sequence 57, Appli	497	6	100.0	17	4	US-08-584-040-7900	Sequence 7900, Ap
c 425	6	100.0	17	3	US-09-071-845-1750	Sequence 1750, Ap	498	6	100.0	17	4	US-08-584-040-7901	Sequence 7901, Ap
c 426	6	100.0	17	3	US-09-071-845-1789	Sequence 1789, Ap	499	6	100.0	17	4	US-08-584-040-7902	Sequence 7902, Ap
c 427	6	100.0	17	3	US-09-071-845-1806	Sequence 1806, Ap	500	6	100.0	17	4	US-08-584-040-8037	Sequence 8037, Ap
c 428	6	100.0	17	3	US-09-071-845-1817	Sequence 1817, Ap	501	6	100.0	17	4	US-08-584-040-8038	Sequence 8038, Ap
c 429	6	100.0	17	3	US-09-616-990-57	Sequence 57, Appli	502	6	100.0	17	4	US-08-584-040-8039	Sequence 8039, Ap
430	6	100.0	17	3	US-09-021-701-102	Sequence 102, App	503	6	100.0	17	4	US-08-584-040-8040	Sequence 8040, Ap
431	6	100.0	17	3	US-09-021-701-103	Sequence 103, App	504	6	100.0	17	4	US-08-584-040-8041	Sequence 8041, Ap
432	6	100.0	17	3	US-09-021-701-104	Sequence 104, App	505	6	100.0	17	4	US-08-584-040-8042	Sequence 8042, Ap
433	6	100.0	17	3	US-09-021-701-105	Sequence 105, App	506	6	100.0	17	4	US-08-679-645-859	Sequence 859, App
434	6	100.0	17	3	US-09-021-701-106	Sequence 106, App	507	6	100.0	17	4	US-08-679-645-861	Sequence 861, App
435	6	100.0	17	3	US-09-021-701-107	Sequence 107, App	508	6	100.0	17	4	US-08-679-645-863	Sequence 863, App
436	6	100.0	17	3	US-09-021-701-108	Sequence 108, App	c 509	6	100.0	17	4	US-09-593-012-57	Sequence 57, Appli
437	6	100.0	17	3	US-09-021-701-109	Sequence 109, App	c 510	6	100.0	17	4	US-09-269-137-12	Sequence 12, Appli
438	6	100.0	17	3	US-09-021-701-110	Sequence 110, App	c 511	6	100.0	17	4	US-09-137-12	Sequence 17, Appli
439	6	100.0	17	3	US-09-021-701-111	Sequence 111, App	512	6	100.0	17	4	US-09-527-223-17	Sequence 19, Appli
440	6	100.0	17	3	US-09-021-701-112	Sequence 112, App	513	6	100.0	17	4	US-09-527-223-19	Sequence 21, Appli
441	6	100.0	17	3	US-09-021-701-113	Sequence 113, App	514	6	100.0	17	4	US-09-527-223-21	Sequence 21, Appli
442	6	100.0	17	3	US-09-158-863C-16	Sequence 16, Appli	515	6	100.0	17	4	US-09-527-030G-181	Sequence 181, App
c 443	6	100.0	17	4	US-09-580-794C-59	Sequence 59, Appli	516	6	100.0	17	4	US-09-447-349-1	Sequence 1, Appli
c 444	6	100.0	17	4	US-08-584-040-1524	Sequence 1524, Ap	517	6	100.0	17	4	US-09-447-349-6	Sequence 6, Appli
445	6	100.0	17	4	US-08-584-040-1638	Sequence 1638, Ap	518	6	100.0	17	4	US-09-474-432B-557	Sequence 557, App
446	6	100.0	17	4	US-08-584-040-1639	Sequence 1639, Ap	519	6	100.0	17	4	US-09-474-432B-896	Sequence 896, App
447	6	100.0	17	4	US-08-584-040-1639	Sequence 1639, Ap	c 520	6	100.0	17	4	US-09-371-772B-69	Sequence 69, Appli
c 448	6	100.0	17	4	US-08-584-040-1640	Sequence 1640, Ap	521	6	100.0	17	4	US-09-371-772B-183	Sequence 183, App
c 449	6	100.0	17	4	US-08-584-040-1735	Sequence 1735, Ap	522	6	100.0	17	4	US-09-371-772B-184	Sequence 184, App
c 450	6	100.0	17	4	US-08-584-040-1788	Sequence 1788, Ap	523	6	100.0	17	4	US-09-371-772B-185	Sequence 185, App
451	6	100.0	17	4	US-08-584-040-1789	Sequence 1789, Ap	c 524	6	100.0	17	4	US-09-371-772B-280	Sequence 280, App
452	6	100.0	17	4	US-08-584-040-2103	Sequence 2103, Ap	c 525	6	100.0	17	4	US-09-371-772B-333	Sequence 333, App
453	6	100.0	17	4	US-08-584-040-2104	Sequence 2104, Ap	c 526	6	100.0	17	4	US-09-371-772B-334	Sequence 334, App
454	6	100.0	17	4	US-08-584-040-2321	Sequence 2321, Ap	527	6	100.0	17	4	US-09-371-772B-648	Sequence 648, App
455	6	100.0	17	4	US-08-584-040-2322	Sequence 2322, Ap	528	6	100.0	17	4	US-09-371-772B-649	Sequence 649, App
456	6	100.0	17	4	US-08-584-040-2323	Sequence 2323, Ap	529	6	100.0	17	4	US-09-371-772B-866	Sequence 866, App
457	6	100.0	17	4	US-08-584-040-2324	Sequence 2324, Ap	530	6	100.0	17	4	US-09-371-772B-867	Sequence 867, App
458	6	100.0	17	4	US-08-584-040-2325	Sequence 2325, Ap	531	6	100.0	17	4	US-09-371-772B-868	Sequence 868, App
459	6	100.0	17	4	US-08-584-040-2326	Sequence 2326, Ap	532	6	100.0	17	4	US-09-371-772B-869	Sequence 869, App
460	6	100.0	17	4	US-08-584-040-2327	Sequence 2327, Ap	533	6	100.0	17	4	US-09-371-772B-870	Sequence 870, App
461	6	100.0	17	4	US-08-584-040-2418	Sequence 2418, Ap	534	6	100.0	17	4	US-09-371-772B-871	Sequence 871, App
462	6	100.0	17	4	US-08-584-040-2419	Sequence 2419, Ap	535	6	100.0	17	4	US-09-371-772B-872	Sequence 872, App
463	6	100.0	17	4	US-08-584-040-2420	Sequence 2420, Ap	536	6	100.0	17	4	US-09-371-772B-963	Sequence 963, App
464	6	100.0	17	4	US-08-584-040-2443	Sequence 2443, Ap	537	6	100.0	17	4	US-09-371-772B-964	Sequence 964, App
465	6	100.0	17	4	US-08-584-040-2444	Sequence 2444, Ap	538	6	100.0	17	4	US-09-371-772B-965	Sequence 965, App
					Sequence 2445, Ap								

539	6	100.0	17	4	US-09-371-772B-1007	Sequence 1007, Ap	612	6	100.0	17	4	US-09-827-998-882	Sequence 882, App
540	6	100.0	17	4	US-09-371-772B-1008	Sequence 1008, Ap	613	6	100.0	17	4	US-09-827-998-883	Sequence 883, App
541	6	100.0	17	4	US-09-371-772B-1009	Sequence 1009, Ap	614	6	100.0	17	4	US-09-827-998-884	Sequence 884, App
542	6	100.0	17	4	US-09-371-772B-1010	Sequence 1010, Ap	615	6	100.0	17	4	US-09-827-998-885	Sequence 885, App
c 543	6	100.0	17	4	US-09-371-772B-1196	Sequence 1196, Ap	616	6	100.0	17	4	US-09-827-998-886	Sequence 886, App
c 544	6	100.0	17	4	US-09-371-772B-1197	Sequence 1197, Ap	617	6	100.0	17	4	US-09-827-998-887	Sequence 887, App
545	6	100.0	17	4	US-09-371-772B-1568	Sequence 1568, Ap	c 618	6	100.0	17	4	US-09-866-108A-2550	Sequence 2550, Ap
546	6	100.0	17	4	US-09-371-772B-1569	Sequence 1569, Ap	c 619	6	100.0	17	4	US-09-866-108A-2551	Sequence 2551, Ap
547	6	100.0	17	4	US-09-371-772B-1570	Sequence 1570, Ap	c 620	6	100.0	17	4	US-09-866-108A-2552	Sequence 2552, Ap
548	6	100.0	17	4	US-09-371-772B-1571	Sequence 1571, Ap	c 621	6	100.0	17	4	US-09-866-108A-2553	Sequence 2553, Ap
c 549	6	100.0	17	4	US-09-371-772B-1594	Sequence 1594, Ap	c 622	6	100.0	17	4	US-09-866-108A-2554	Sequence 2554, Ap
c 550	6	100.0	17	4	US-09-371-772B-1595	Sequence 1595, Ap	c 623	6	100.0	17	4	US-09-866-108A-2555	Sequence 2555, Ap
551	6	100.0	17	4	US-09-371-772B-1635	Sequence 1635, Ap	c 624	6	100.0	17	4	US-09-866-108A-2556	Sequence 2556, Ap
552	6	100.0	17	4	US-09-371-772B-1636	Sequence 1636, Ap	c 625	6	100.0	17	4	US-09-866-108A-2557	Sequence 2557, Ap
553	6	100.0	17	4	US-09-371-772B-1637	Sequence 1637, Ap	c 626	6	100.0	17	4	US-09-866-108A-2558	Sequence 2558, Ap
554	6	100.0	17	4	US-09-371-772B-1965	Sequence 1965, Ap	c 627	6	100.0	17	4	US-09-866-108A-2559	Sequence 2559, Ap
555	6	100.0	17	4	US-09-371-772B-1966	Sequence 1966, Ap	c 628	6	100.0	17	4	US-09-866-108A-2560	Sequence 2560, Ap
556	6	100.0	17	4	US-09-371-772B-1967	Sequence 1967, Ap	c 629	6	100.0	17	4	US-09-866-108A-2561	Sequence 2561, Ap
557	6	100.0	17	4	US-09-371-772B-1968	Sequence 1968, Ap	c 630	6	100.0	17	4	US-09-866-108A-7957	Sequence 7957, Ap
c 558	6	100.0	17	4	US-09-371-772B-3289	Sequence 3289, Ap	c 631	6	100.0	17	4	US-09-866-108A-7958	Sequence 7958, Ap
559	6	100.0	17	4	US-09-371-772B-3678	Sequence 3678, Ap	c 632	6	100.0	17	4	US-09-866-108A-7959	Sequence 7959, Ap
560	6	100.0	17	4	US-09-371-772B-3679	Sequence 3679, Ap	c 633	6	100.0	17	4	US-09-866-108A-7960	Sequence 7960, Ap
561	6	100.0	17	4	US-09-371-772B-3680	Sequence 3680, Ap	c 634	6	100.0	17	4	US-09-866-108A-7961	Sequence 7961, Ap
562	6	100.0	17	4	US-09-371-772B-3681	Sequence 3681, Ap	c 635	6	100.0	17	4	US-09-866-108A-7962	Sequence 7962, Ap
563	6	100.0	17	4	US-09-371-772B-3682	Sequence 3682, Ap	c 636	6	100.0	17	4	US-09-866-108A-7963	Sequence 7963, Ap
564	6	100.0	17	4	US-09-371-772B-3683	Sequence 3683, Ap	c 637	6	100.0	17	4	US-09-866-108A-7964	Sequence 7964, Ap
565	6	100.0	17	4	US-09-371-772B-3684	Sequence 3684, Ap	c 638	6	100.0	17	4	US-09-866-108A-7965	Sequence 7965, Ap
566	6	100.0	17	4	US-09-371-772B-3685	Sequence 3685, Ap	c 639	6	100.0	17	4	US-09-866-108A-7966	Sequence 7966, Ap
567	6	100.0	17	4	US-09-371-772B-3820	Sequence 3820, Ap	c 640	6	100.0	17	4	US-09-866-108A-7967	Sequence 7967, Ap
568	6	100.0	17	4	US-09-371-772B-3821	Sequence 3821, Ap	c 641	6	100.0	17	4	US-09-866-108A-7968	Sequence 7968, Ap
569	6	100.0	17	4	US-09-371-772B-3822	Sequence 3822, Ap	c 642	6	100.0	17	4	US-08-093-336-2	Sequence 2, Appl
570	6	100.0	17	4	US-09-371-772B-3823	Sequence 3823, Ap	c 643	6	100.0	18	1	US-08-105-483-287	Sequence 287, App
571	6	100.0	17	4	US-09-371-772B-3824	Sequence 3824, Ap	c 644	6	100.0	18	1	US-08-170-095B-31	Sequence 31, Appl
572	6	100.0	17	4	US-09-371-772B-3825	Sequence 3825, Ap	c 645	6	100.0	18	1	US-08-170-095B-34	Sequence 34, Appl
c 573	6	100.0	17	4	US-09-371-772B-4280	Sequence 4280, Ap	c 646	6	100.0	18	1	US-08-379-081B-231	Sequence 231, App
574	6	100.0	17	4	US-09-371-772B-4400	Sequence 4400, Ap	c 647	6	100.0	18	1	US-08-379-078-231	Sequence 231, App
575	6	100.0	17	4	US-09-371-772B-4401	Sequence 4401, Ap	c 648	6	100.0	18	1	US-08-338-355-8	Sequence 8, Appl
c 576	6	100.0	17	4	US-09-371-772B-4510	Sequence 4510, Ap	c 649	6	100.0	18	1	US-08-390-850-1118	Sequence 1118, Ap
c 577	6	100.0	17	4	US-09-371-772B-4553	Sequence 4553, Ap	c 650	6	100.0	18	1	US-08-390-850-1129	Sequence 1129, Ap
c 578	6	100.0	17	4	US-09-371-772B-4554	Sequence 4554, Ap	c 651	6	100.0	18	1	US-08-319-492B-721	Sequence 721, App
579	6	100.0	17	4	US-09-371-772B-4954	Sequence 4954, Ap	c 652	6	100.0	18	1	US-08-319-492B-731	Sequence 731, App
580	6	100.0	17	4	US-09-371-772B-4955	Sequence 4955, Ap	c 653	6	100.0	18	1	US-08-319-492B-751	Sequence 751, App
581	6	100.0	17	4	US-09-371-772B-4956	Sequence 4956, Ap	c 654	6	100.0	18	1	US-08-379-078-231	Sequence 231, App
582	6	100.0	17	4	US-09-371-772B-5238	Sequence 5238, Ap	c 655	6	100.0	18	1	US-08-379-078-232	Sequence 232, App
583	6	100.0	17	4	US-09-371-772B-5327	Sequence 5327, Ap	c 656	6	100.0	18	1	US-08-129-456A-29	Sequence 29, Appl
584	6	100.0	17	4	US-09-371-772B-5328	Sequence 5328, Ap	c 657	6	100.0	18	1	US-08-373-124A-2191	Sequence 2191, Ap
585	6	100.0	17	4	US-09-371-772B-5360	Sequence 5360, Ap	c 658	6	100.0	18	1	US-08-373-124A-2197	Sequence 2197, Ap
586	6	100.0	17	4	US-09-371-772B-5361	Sequence 5361, Ap	c 659	6	100.0	18	1	US-08-373-124A-2255	Sequence 2255, Ap
587	6	100.0	17	4	US-09-371-772B-5362	Sequence 5362, Ap	c 660	6	100.0	18	1	US-08-373-124A-2275	Sequence 2275, Ap
588	6	100.0	17	4	US-09-371-772B-5363	Sequence 5363, Ap	c 661	6	100.0	18	1	US-08-373-124A-2467	Sequence 2467, Ap
c 589	6	100.0	17	4	US-09-371-772B-5530	Sequence 5530, Ap	c 662	6	100.0	18	1	US-08-373-124A-2611	Sequence 2611, Ap
c 590	6	100.0	17	4	US-09-371-772B-5531	Sequence 5531, Ap	c 663	6	100.0	18	1	US-08-396-866-31	Sequence 31, Appl
591	6	100.0	17	4	US-09-371-772B-6191	Sequence 6191, Ap	c 664	6	100.0	18	1	US-08-396-866-34	Sequence 34, Appl
592	6	100.0	17	4	US-09-371-772B-6192	Sequence 6192, Ap	c 665	6	100.0	18	1	US-08-143-219-10	Sequence 10, Appl
c 593	6	100.0	17	4	US-09-371-772B-6193	Sequence 6193, Ap	c 666	6	100.0	18	1	US-08-435-634-1118	Sequence 1118, Ap
594	6	100.0	17	4	US-09-371-772B-6244	Sequence 6244, Ap	c 667	6	100.0	18	1	US-08-435-634-1129	Sequence 1129, Ap
595	6	100.0	17	4	US-09-371-772B-6245	Sequence 6245, Ap	c 668	6	100.0	18	1	US-08-525-654A-138	Sequence 138, App
596	6	100.0	17	4	US-09-371-772B-6718	Sequence 6718, Ap	c 669	6	100.0	18	1	US-08-709-209-287	Sequence 287, App
597	6	100.0	17	4	US-09-371-772B-6719	Sequence 6719, Ap	c 670	6	100.0	18	1	US-08-458-101-287	Sequence 287, App
598	6	100.0	17	4	US-09-371-772B-6720	Sequence 6720, Ap	c 671	6	100.0	18	1	US-08-132-168A-9	Sequence 9, Appl
599	6	100.0	17	4	US-09-371-772B-6721	Sequence 6721, Ap	c 672	6	100.0	18	1	US-08-482-577B-6	Sequence 6, Appl
c 600	6	100.0	17	4	US-09-371-772B-6951	Sequence 6951, Ap	c 673	6	100.0	18	1	US-08-758-306-527	Sequence 527, App
c 601	6	100.0	17	4	US-09-371-772B-6952	Sequence 6952, Ap	c 674	6	100.0	18	1	US-08-758-306-541	Sequence 541, App
602	6	100.0	17	4	US-08-993-765-1	Sequence 1, Appl	c 675	6	100.0	18	1	US-08-758-306-561	Sequence 561, App
603	6	100.0	17	4	US-09-476-387-556	Sequence 556, App	c 676	6	100.0	18	1	US-08-432-224-6	Sequence 6, Appl
604	6	100.0	17	4	US-09-476-387-895	Sequence 895, App	c 677	6	100.0	18	1	US-08-435-628-2191	Sequence 2191, Ap
605	6	100.0	17	4	US-09-927-842-10	Sequence 10, Appl	c 678	6	100.0	18	1	US-08-435-628-2197	Sequence 2197, Ap
606	6	100.0	17	4	US-09-827-998-876	Sequence 876, App	c 679	6	100.0	18	1	US-08-435-628-2255	Sequence 2255, Ap
607	6	100.0	17	4	US-09-827-998-877	Sequence 877, App	c 680	6	100.0	18	1	US-08-435-628-2275	Sequence 2275, Ap
608	6	100.0	17	4	US-09-827-998-878	Sequence 878, App	c 681	6	100.0	18	1	US-08-435-628-2467	Sequence 2467, Ap
609	6	100.0	17	4	US-09-827-998-879	Sequence 879, App	c 682	6	100.0	18	1	US-08-435-628-2611	Sequence 2611, Ap
610	6	100.0	17	4	US-09-827-998-880	Sequence 880, App	c 683	6	100.0	18	2	US-08-210-762E-36	Sequence 36, Appl
611	6	100.0	17	4	US-09-827-998-881	Sequence 881, App	c 684	6	100.0	18	2	US-08-210-762E-37	Sequence 37, Appl

685	6	100.0	18	2	US-08-210-762E-38	Sequence 38, Appl	758	6	100.0	18	3	US-09-066-046-43	Sequence 43, Appl
686	6	100.0	18	2	US-08-210-762E-72	Sequence 72, Appl	759	6	100.0	18	3	US-08-360-821B-26	Sequence 26, Appl
687	6	100.0	18	2	US-08-463-377-6	Sequence 6, Appl	760	6	100.0	18	3	US-08-478-316-86	Sequence 86, Appl
688	6	100.0	18	2	US-08-485-095-6	Sequence 6, Appl	761	6	100.0	18	3	US-09-525-397-29	Sequence 29, Appl
689	6	100.0	18	2	US-08-585-684B-2494	Sequence 2494, Ap	762	6	100.0	18	3	US-09-195-940-17	Sequence 17, Appl
690	6	100.0	18	2	US-08-585-684B-2496	Sequence 2496, Ap	763	6	100.0	18	3	US-09-455-683-27	Sequence 27, Appl
691	6	100.0	18	2	US-08-585-684B-2534	Sequence 2534, Ap	764	6	100.0	18	3	US-09-338-907-362	Sequence 362, App
692	6	100.0	18	2	US-08-585-684B-2536	Sequence 2536, Ap	765	6	100.0	18	3	US-09-171-945-108	Sequence 108, App
693	6	100.0	18	2	US-08-585-684B-2552	Sequence 2552, Ap	766	6	100.0	18	3	US-09-723-534-27	Sequence 27, Appl
694	6	100.0	18	2	US-08-585-684B-2588	Sequence 2588, Ap	767	6	100.0	18	4	US-09-521-144-19	Sequence 19, Appl
695	6	100.0	18	2	US-08-585-684B-2597	Sequence 2597, Ap	768	6	100.0	18	4	US-08-483-211A-53	Sequence 53, Appl
696	6	100.0	18	2	US-08-585-684B-2597	Sequence 17, Appl	769	6	100.0	18	4	US-09-106-075A-36	Sequence 36, Appl
697	6	100.0	18	2	US-08-611-280-17	Sequence 42, Appl	770	6	100.0	18	4	US-09-106-075A-37	Sequence 37, Appl
698	6	100.0	18	2	US-08-912-129A-42	Sequence 35, Appl	771	6	100.0	18	4	US-09-106-075A-38	Sequence 38, Appl
699	6	100.0	18	2	US-08-213-767-35	Sequence 18, Appl	772	6	100.0	18	4	US-09-106-075A-72	Sequence 72, Appl
700	6	100.0	18	2	US-08-885-126-18	Sequence 18, Appl	773	6	100.0	18	4	US-09-308-003-40	Sequence 40, Appl
701	6	100.0	18	2	US-09-205-204-19	Sequence 19, Appl	774	6	100.0	18	4	US-09-397-992A-18	Sequence 18, Appl
702	6	100.0	18	2	US-09-197-360-28	Sequence 28, Appl	775	6	100.0	18	4	US-09-228-324A-17	Sequence 17, Appl
703	6	100.0	18	2	US-09-161-015-21	Sequence 21, Appl	776	6	100.0	18	4	US-09-228-324A-19	Sequence 19, Appl
704	6	100.0	18	2	US-08-886-595A-2	Sequence 2, Appl	777	6	100.0	18	4	US-09-218-207-362	Sequence 362, App
705	6	100.0	18	2	US-09-001-826-18	Sequence 18, Appl	778	6	100.0	18	4	US-08-584-040-3036	Sequence 3036, Ap
706	6	100.0	18	2	US-09-197-008-16	Sequence 16, Appl	779	6	100.0	18	4	US-08-584-040-3084	Sequence 3084, Ap
707	6	100.0	18	2	US-09-205-860-69	Sequence 69, Appl	780	6	100.0	18	4	US-08-584-040-3061	Sequence 3061, Ap
708	6	100.0	18	2	US-09-205-860-75	Sequence 75, Appl	781	6	100.0	18	4	US-08-584-040-3062	Sequence 3062, Ap
709	6	100.0	18	2	US-09-205-860-87	Sequence 87, Appl	782	6	100.0	18	4	US-08-584-040-3064	Sequence 3064, Ap
710	6	100.0	18	2	US-09-213-768-45	Sequence 45, Appl	783	6	100.0	18	4	US-08-584-040-4462	Sequence 4462, Ap
711	6	100.0	18	2	US-08-480-655-27	Sequence 27, Appl	784	6	100.0	18	4	US-08-584-040-8390	Sequence 8390, Ap
712	6	100.0	18	3	US-09-161-244-39	Sequence 39, Appl	785	6	100.0	18	4	US-08-584-040-8391	Sequence 8391, Ap
713	6	100.0	18	3	US-09-161-244-54	Sequence 54, Appl	786	6	100.0	18	4	US-08-584-040-8400	Sequence 8400, Ap
714	6	100.0	18	3	US-09-106-038A-47	Sequence 47, Appl	787	6	100.0	18	4	US-08-488-223A-53	Sequence 53, Appl
715	6	100.0	18	3	US-07-792-600-28	Sequence 28, Appl	788	6	100.0	18	4	US-08-679-645-1239	Sequence 1239, Ap
716	6	100.0	18	3	US-09-255-893-21	Sequence 21, Appl	789	6	100.0	18	4	US-08-706-945D-81	Sequence 81, Appl
717	6	100.0	18	3	US-08-765-679-1	Sequence 1, Appl	790	6	100.0	18	4	US-08-706-945D-82	Sequence 82, Appl
718	6	100.0	18	3	US-09-161-443-11	Sequence 11, Appl	791	6	100.0	18	4	US-09-562-466-17	Sequence 17, Appl
719	6	100.0	18	3	US-08-826-532-17	Sequence 17, Appl	792	6	100.0	18	4	US-09-019-793A-86	Sequence 86, Appl
720	6	100.0	18	3	US-08-826-532-19	Sequence 19, Appl	793	6	100.0	18	4	US-09-856-074B-28	Sequence 28, Appl
721	6	100.0	18	3	US-08-445-463B-26	Sequence 26, Appl	794	6	100.0	18	4	US-09-167-109-170	Sequence 170, App
722	6	100.0	18	3	US-09-255-912-28	Sequence 28, Appl	795	6	100.0	18	4	US-09-387-341-164	Sequence 164, Appl
723	6	100.0	18	3	US-09-256-492-11	Sequence 11, Appl	796	6	100.0	18	4	US-08-438-431A-53	Sequence 53, Appl
724	6	100.0	18	3	US-09-289-377-37	Sequence 37, Appl	797	6	100.0	18	4	US-09-144-367-15	Sequence 15, Appl
725	6	100.0	18	3	US-08-485-942A-53	Sequence 53, Appl	798	6	100.0	18	4	US-09-144-367-29	Sequence 29, Appl
726	6	100.0	18	3	US-09-339-775-28	Sequence 28, Appl	799	6	100.0	18	4	US-09-527-223-27	Sequence 27, Appl
727	6	100.0	18	3	US-08-867-381A-19	Sequence 19, Appl	800	6	100.0	18	4	US-09-527-223-33	Sequence 33, Appl
728	6	100.0	18	3	US-09-143-212-48	Sequence 48, Appl	801	6	100.0	18	4	US-09-457-066-28	Sequence 28, Appl
729	6	100.0	18	3	US-09-143-212-49	Sequence 49, Appl	802	6	100.0	18	4	US-08-044-857D-26	Sequence 26, Appl
730	6	100.0	18	3	US-09-143-212-53	Sequence 53, Appl	803	6	100.0	18	4	US-08-488-225A-53	Sequence 53, Appl
731	6	100.0	18	3	US-08-445-464C-26	Sequence 26, Appl	804	6	100.0	18	4	US-09-425-233-3	Sequence 3, Appl
732	6	100.0	18	3	US-09-157-021-28	Sequence 28, Appl	805	6	100.0	18	4	US-09-920-760-15	Sequence 15, Appl
733	6	100.0	18	3	US-09-156-842-28	Sequence 28, Appl	806	6	100.0	18	4	US-09-920-760-16	Sequence 16, Appl
734	6	100.0	18	3	US-09-280-409-47	Sequence 47, Appl	807	6	100.0	18	4	US-09-171-755B-31	Sequence 31, Appl
735	6	100.0	18	3	US-09-280-409-71	Sequence 71, Appl	808	6	100.0	18	4	US-09-319-588D-40	Sequence 40, Appl
736	6	100.0	18	3	US-09-280-409-106	Sequence 106, App	809	6	100.0	18	4	US-09-319-588D-62	Sequence 62, Appl
737	6	100.0	18	3	US-09-280-409-141	Sequence 141, App	810	6	100.0	18	4	US-09-706-968-28	Sequence 28, Appl
738	6	100.0	18	3	US-08-532-896-33	Sequence 33, Appl	811	6	100.0	18	4	US-09-535-012A-2	Sequence 2, Appl
739	6	100.0	18	3	US-08-488-214A-53	Sequence 53, Appl	812	6	100.0	18	4	US-09-422-978-4044	Sequence 4044, Ap
740	6	100.0	18	3	US-08-488-208A-53	Sequence 53, Appl	813	6	100.0	18	4	US-09-422-978-4121	Sequence 4121, Ap
741	6	100.0	18	3	US-09-071-710-29	Sequence 29, Appl	814	6	100.0	18	4	US-09-422-978-4517	Sequence 4517, Ap
742	6	100.0	18	3	US-08-882-046-76	Sequence 76, Appl	815	6	100.0	18	4	US-09-422-978-4573	Sequence 4573, Ap
743	6	100.0	18	3	US-09-487-444-32	Sequence 32, Appl	816	6	100.0	18	4	US-09-422-978-4640	Sequence 4640, Ap
744	6	100.0	18	3	US-09-218-176-6	Sequence 6, Appl	817	6	100.0	18	4	US-09-422-978-4649	Sequence 4649, Ap
745	6	100.0	18	3	US-08-413-740A-192	Sequence 192, App	818	6	100.0	18	4	US-09-422-978-4694	Sequence 4694, Ap
746	6	100.0	18	3	US-09-474-922A-27	Sequence 27, Appl	819	6	100.0	18	4	US-09-422-978-4801	Sequence 4801, Ap
747	6	100.0	18	3	US-09-038-073-2494	Sequence 2494, Ap	820	6	100.0	18	4	US-09-422-978-5263	Sequence 5263, Ap
748	6	100.0	18	3	US-09-038-073-2496	Sequence 2496, Ap	821	6	100.0	18	4	US-09-422-978-5292	Sequence 5292, Ap
749	6	100.0	18	3	US-09-038-073-2534	Sequence 2534, Ap	822	6	100.0	18	4	US-09-422-978-5632	Sequence 5632, Ap
750	6	100.0	18	3	US-09-038-073-2536	Sequence 2536, Ap	823	6	100.0	18	4	US-09-422-978-5748	Sequence 5748, Ap
751	6	100.0	18	3	US-09-038-073-2552	Sequence 2552, Ap	824	6	100.0	18	4	US-09-422-978-5803	Sequence 5803, Ap
752	6	100.0	18	3	US-09-038-073-2588	Sequence 2588, Ap	825	6	100.0	18	4	US-09-422-978-5818	Sequence 5818, Ap
753	6	100.0	18	3	US-09-038-073-2589	Sequence 2589, Ap	826	6	100.0	18	4	US-09-422-978-5869	Sequence 5869, Ap
754	6	100.0	18	3	US-09-038-073-2597	Sequence 2597, Ap	827	6	100.0	18	4	US-09-422-978-5988	Sequence 5988, Ap
755	6	100.0	18	3	US-09-071-433-36	Sequence 26, Appl	828	6	100.0	18	4	US-09-422-978-6049	Sequence 6049, Ap
756	6	100.0	18	3	US-09-071-433-33	Sequence 33, Appl	829	6	100.0	18	4	US-09-422-978-6093	Sequence 6093, Ap
757	6	100.0	18	3	US-09-071-433-34	Sequence 34, Appl	830	6	100.0	18	4	US-09-422-978-6164	Sequence 6164, Ap

C 831	6	100.0	18	4	US-09-422-978-6621	Sequence 6621, Ap	C 904	6	100.0	19	2	US-09-161-015-2	Sequence 2, Appl
C 832	6	100.0	18	4	US-09-422-978-6671	Sequence 6671, Ap	C 905	6	100.0	19	2	US-08-970-369A-11	Sequence 11, Appl
C 833	6	100.0	18	4	US-09-422-978-6729	Sequence 6729, Ap	C 906	6	100.0	19	3	US-08-465-887A-14	Sequence 14, Appl
C 834	6	100.0	18	4	US-09-422-978-6773	Sequence 6773, Ap	C 907	6	100.0	19	3	US-08-564-496C-24	Sequence 24, Appl
C 835	6	100.0	18	4	US-09-422-978-7182	Sequence 7182, Ap	C 908	6	100.0	19	3	US-09-044-946-73	Sequence 73, Appl
C 836	6	100.0	18	4	US-09-422-978-7332	Sequence 7332, Ap	C 909	6	100.0	19	3	US-09-185-437-7	Sequence 7, Appl
C 837	6	100.0	18	4	US-09-422-978-7356	Sequence 7356, Ap	C 910	6	100.0	19	3	US-08-960-111-12	Sequence 12, Appl
C 838	6	100.0	18	4	US-09-422-978-7428	Sequence 7428, Ap	C 911	6	100.0	19	3	US-09-044-908-73	Sequence 73, Appl
C 839	6	100.0	18	4	US-09-422-978-7513	Sequence 7513, Ap	C 912	6	100.0	19	3	US-09-251-565-26	Sequence 26, Appl
C 840	6	100.0	18	4	US-09-422-978-7580	Sequence 7580, Ap	C 913	6	100.0	19	3	US-08-912-276-9	Sequence 9, Appl
C 841	6	100.0	18	4	US-09-422-978-7591	Sequence 7591, Ap	C 914	6	100.0	19	3	US-08-937-063-14	Sequence 14, Appl
C 842	6	100.0	18	4	US-09-422-978-7838	Sequence 7838, Ap	C 915	6	100.0	19	3	US-08-643-212-47	Sequence 47, Appl
C 843	6	100.0	18	4	US-09-422-978-8045	Sequence 8045, Ap	C 916	6	100.0	19	3	US-08-476-423A-39	Sequence 39, Appl
C 844	6	100.0	18	4	US-09-422-978-8161	Sequence 8161, Ap	C 917	6	100.0	19	3	US-08-476-423A-83	Sequence 83, Appl
C 845	6	100.0	18	4	US-09-422-978-8421	Sequence 8421, Ap	C 918	6	100.0	19	3	US-09-018-584A-64	Sequence 64, Appl
C 846	6	100.0	18	4	US-09-422-978-8553	Sequence 8553, Ap	C 919	6	100.0	19	3	US-09-018-584A-134	Sequence 134, Appl
C 847	6	100.0	18	4	US-09-422-978-8585	Sequence 8585, Ap	C 920	6	100.0	19	3	US-09-430-774-12	Sequence 12, Appl
C 848	6	100.0	18	4	US-09-422-978-8685	Sequence 8685, Ap	C 921	6	100.0	19	3	US-09-338-907-347	Sequence 347, Appl
C 849	6	100.0	18	4	US-09-422-978-8778	Sequence 8778, Ap	C 922	6	100.0	19	3	US-09-338-907-356	Sequence 356, Appl
C 850	6	100.0	18	4	US-09-422-978-9299	Sequence 9299, Ap	C 923	6	100.0	19	3	US-09-338-907-469	Sequence 469, Appl
C 851	6	100.0	18	4	US-09-422-978-9338	Sequence 9338, Ap	C 924	6	100.0	19	3	US-08-997-251-15	Sequence 15, Appl
C 852	6	100.0	18	4	US-09-422-978-9893	Sequence 9893, A	C 925	6	100.0	19	3	US-09-031-006-2	Sequence 2, Appl
C 853	6	100.0	18	4	US-09-422-978-10565	Sequence 10565, A	C 926	6	100.0	19	3	US-09-407-562-11	Sequence 11, Appl
C 854	6	100.0	18	4	US-09-422-978-10617	Sequence 10617, A	C 927	6	100.0	19	4	US-07-974-409C-293	Sequence 293, Appl
C 855	6	100.0	18	4	US-09-422-978-11220	Sequence 11220, A	C 928	6	100.0	19	4	US-09-218-207-347	Sequence 347, Appl
C 856	6	100.0	18	4	US-09-971-843-18	Sequence 18, Appl	C 929	6	100.0	19	4	US-09-218-207-356	Sequence 356, Appl
C 857	6	100.0	18	4	US-09-264-854-18	Sequence 1464, Ap	C 930	6	100.0	19	4	US-09-218-207-469	Sequence 469, Appl
C 858	6	100.0	18	4	US-09-371-772B-1464	Sequence 1464, Ap	C 931	6	100.0	19	4	US-09-400-348-18	Sequence 18, Appl
C 859	6	100.0	18	4	US-09-371-772B-1482	Sequence 1482, Ap	C 932	6	100.0	19	4	US-09-345-882-116	Sequence 116, Appl
C 860	6	100.0	18	4	US-09-371-772B-1489	Sequence 1489, Ap	C 933	6	100.0	19	4	US-09-632-021-5	Sequence 5, Appl
C 861	6	100.0	18	4	US-09-371-772B-1491	Sequence 1491, Ap	C 934	6	100.0	19	4	US-09-360-416-55	Sequence 55, Appl
C 862	6	100.0	18	4	US-09-371-772B-2175	Sequence 2175, Ap	C 935	6	100.0	19	4	US-08-899-367-21	Sequence 21, Appl
C 863	6	100.0	18	4	US-09-371-772B-2046	Sequence 4046, Ap	C 936	6	100.0	19	4	US-09-506-286B-100	Sequence 100, Appl
C 864	6	100.0	18	4	US-09-371-772B-4047	Sequence 4047, Ap	C 937	6	100.0	19	4	US-09-564-808-7	Sequence 7, Appl
C 865	6	100.0	18	4	US-09-371-772B-4055	Sequence 4056, Ap	C 938	6	100.0	19	4	US-09-661-596A-51	Sequence 51, Appl
C 866	6	100.0	18	4	US-09-636-399A-8	Sequence 8, Appl	C 939	6	100.0	19	4	US-09-820-182-6	Sequence 6, Appl
C 867	6	100.0	18	4	US-08-993-765-2	Sequence 3, Appl	C 940	6	100.0	19	4	US-09-422-978-3999	Sequence 3999, Ap
C 868	6	100.0	18	4	US-09-927-842-7	Sequence 7, Appl	C 941	6	100.0	19	4	US-09-422-978-4157	Sequence 4157, Ap
C 869	6	100.0	18	4	US-09-927-842-8	Sequence 8, Appl	C 942	6	100.0	19	4	US-09-422-978-4226	Sequence 4226, Ap
C 870	6	100.0	18	4	US-09-230-896C-18	Sequence 18, Appl	C 943	6	100.0	19	4	US-09-422-978-4481	Sequence 4481, Ap
C 871	6	100.0	18	4	US-09-591-514-28	Sequence 28, Appl	C 944	6	100.0	19	4	US-09-422-978-4637	Sequence 4637, Ap
C 872	6	100.0	18	4	US-09-387-671-18	Sequence 18, Appl	C 945	6	100.0	19	4	US-09-422-978-4780	Sequence 4780, Ap
C 873	6	100.0	18	4	US-08-179-656A-6	Sequence 6, Appl	C 946	6	100.0	19	4	US-09-422-978-4909	Sequence 4909, Ap
C 874	6	100.0	18	5	PCT-US94-00300-6	Sequence 6, Appl	C 947	6	100.0	19	4	US-09-422-978-5051	Sequence 5051, Ap
C 875	6	100.0	18	5	PCT-US94-03437-26	Sequence 26, Appl	C 948	6	100.0	19	4	US-09-422-978-5073	Sequence 5073, Ap
C 876	6	100.0	18	5	PCT-US95-04063-192	Sequence 192, Appl	C 949	6	100.0	19	4	US-09-422-978-5264	Sequence 5264, Ap
C 877	6	100.0	18	5	PCT-US95-04094-4	Sequence 4, Appl	C 950	6	100.0	19	4	US-09-422-978-5342	Sequence 5342, Ap
C 878	6	100.0	18	6	5340713-4	Patent No. 5340713	C 951	6	100.0	19	4	US-09-422-978-5500	Sequence 5500, Ap
C 879	6	100.0	19	1	US-08-161-673A-7	Sequence 7, Appl	C 952	6	100.0	19	4	US-09-422-978-5505	Sequence 5505, Ap
C 880	6	100.0	19	1	US-08-367-175A-22	Sequence 22, Appl	C 953	6	100.0	19	4	US-09-422-978-6066	Sequence 6066, Ap
C 881	6	100.0	19	1	US-08-379-078-719	Sequence 719, Appl	C 954	6	100.0	19	4	US-09-422-978-6368	Sequence 6368, Ap
C 882	6	100.0	19	1	US-08-261-822A-48	Sequence 48, Appl	C 955	6	100.0	19	4	US-09-422-978-6665	Sequence 6665, Ap
C 883	6	100.0	19	1	US-08-446-919A-11	Sequence 11, Appl	C 956	6	100.0	19	4	US-09-422-978-6665	Sequence 6665, Ap
C 884	6	100.0	19	1	US-08-132-168A-19	Sequence 19, Appl	C 957	6	100.0	19	4	US-09-422-978-6801	Sequence 6801, Ap
C 885	6	100.0	19	1	US-08-887-480-88	Sequence 88, Appl	C 958	6	100.0	19	4	US-09-422-978-7014	Sequence 7014, Ap
C 886	6	100.0	19	1	US-08-468-580-25	Sequence 25, Appl	C 959	6	100.0	19	4	US-09-422-978-7032	Sequence 7032, Ap
C 887	6	100.0	19	1	US-08-905-314A-8	Sequence 8, Appl	C 960	6	100.0	19	4	US-09-422-978-7034	Sequence 7034, Ap
C 888	6	100.0	19	2	US-08-466-337A-14	Sequence 14, Appl	C 961	6	100.0	19	4	US-09-422-978-7136	Sequence 7136, Ap
C 889	6	100.0	19	2	US-08-638-501-73	Sequence 73, Appl	C 962	6	100.0	19	4	US-09-422-978-7173	Sequence 7173, Ap
C 890	6	100.0	19	2	US-08-475-359-14	Sequence 14, Appl	C 963	6	100.0	19	4	US-09-422-978-7349	Sequence 7349, Ap
C 891	6	100.0	19	2	US-08-485-689-39	Sequence 39, Appl	C 964	6	100.0	19	4	US-09-422-978-7528	Sequence 7528, Ap
C 892	6	100.0	19	2	US-08-485-689-83	Sequence 83, Appl	C 965	6	100.0	19	4	US-09-422-978-7596	Sequence 7596, Ap
C 893	6	100.0	19	2	US-08-476-021A-39	Sequence 39, Appl	C 966	6	100.0	19	4	US-09-422-978-7687	Sequence 7687, Ap
C 894	6	100.0	19	2	US-08-476-021A-83	Sequence 83, Appl	C 967	6	100.0	19	4	US-09-422-978-7794	Sequence 7794, Ap
C 895	6	100.0	19	2	US-08-478-608B-39	Sequence 39, Appl	C 968	6	100.0	19	4	US-09-422-978-8557	Sequence 8557, Ap
C 896	6	100.0	19	2	US-08-478-608B-83	Sequence 83, Appl	C 969	6	100.0	19	4	US-09-422-978-9526	Sequence 9526, Ap
C 897	6	100.0	19	2	US-08-899-811-11	Sequence 11, Appl	C 970	6	100.0	19	4	US-09-422-978-9643	Sequence 9643, Ap
C 898	6	100.0	19	2	US-08-899-811-13	Sequence 13, Appl	C 971	6	100.0	19	4	US-09-422-978-9870	Sequence 9870, Ap
C 899	6	100.0	19	2	US-08-370-235A-4	Sequence 4, Appl	C 972	6	100.0	19	4	US-09-422-978-10819	Sequence 10819, A
C 900	6	100.0	19	2	US-08-973-902-26	Sequence 26, Appl	C 973	6	100.0	19	4	US-09-422-978-11338	Sequence 11338, A
C 901	6	100.0	19	2	US-08-481-876-7	Sequence 7, Appl	C 974	6	100.0	19	4	US-09-422-978-11345	Sequence 11345, A
C 902	6	100.0	19	2	US-08-885-126-10	Sequence 10, Appl	C 975	6	100.0	19	4	US-09-422-978-11720	Sequence 11720, A
C 903	6	100.0	19	2	US-08-819-288-18	Sequence 18, Appl	C 976	6	100.0	19	4	US-09-422-978-11738	Sequence 11738, A

977	19	4	US-09-506-859-24	Sequence 24, Appl	6	100.0	20	2	US-08-832-877-45	Sequence 45, Appl
978	19	4	US-09-927-842-6	Sequence 6, Appl	6	100.0	20	2	US-08-832-877-112	Sequence 112, Appl
979	19	4	US-09-927-842-9	Sequence 9, Appl	6	100.0	20	2	US-08-632-575B-13	Sequence 13, Appl
c 980	19	4	US-09-922-271-2	Sequence 2, Appl	6	100.0	20	2	US-08-117-952-624	Sequence 624, Appl
981	19	4	US-09-706-722A-5	Sequence 5, Appl	6	100.0	20	2	US-08-117-952-720	Sequence 720, Appl
c 982	19	4	US-09-672-717-64	Sequence 64, Appl	6	100.0	20	2	US-08-406-057-10	Sequence 10, Appl
983	19	4	US-09-672-717-178	Sequence 178, Appl	6	100.0	20	2	US-08-865-348-5	Sequence 5, Appl
984	19	4	US-10-065-133A-100	Sequence 100, Appl	6	100.0	20	2	US-08-865-348-6	Sequence 6, Appl
985	19	5	PCT-US93-009771-293	Sequence 293, Appl	6	100.0	20	2	US-08-865-348-9	Sequence 9, Appl
986	19	5	PCT-US95-03731-25	Sequence 25, Appl	6	100.0	20	2	US-08-865-348-10	Sequence 10, Appl
987	19	5	PCT-US95-07744A-48	Sequence 48, Appl	6	100.0	20	2	US-08-896-116-12	Sequence 12, Appl
988	19	5	PCT-US95-15428-24	Sequence 24, Appl	6	100.0	20	2	US-08-890-734A-80	Sequence 80, Appl
c 989	20	1	US-07-964-151-10	Sequence 10, Appl	6	100.0	20	2	US-08-889-296A-38	Sequence 38, Appl
c 990	20	1	US-08-004-139B-20	Sequence 20, Appl	6	100.0	20	2	US-08-804-196-3	Sequence 3, Appl
991	20	1	US-08-031-143B-42	Sequence 42, Appl	6	100.0	20	2	US-08-378-939-8	Sequence 8, Appl
992	20	1	US-08-214-770-18	Sequence 18, Appl	6	100.0	20	2	US-08-910-629A-25	Sequence 25, Appl
993	20	1	US-08-474-542A-64	Sequence 64, Appl	6	100.0	20	2	US-08-669-536-4	Sequence 4, Appl
c 994	20	1	US-08-271-946A-33	Sequence 33, Appl	6	100.0	20	2	US-08-658-340-3	Sequence 3, Appl
c 995	20	1	US-08-271-942A-33	Sequence 33, Appl	6	100.0	20	2	US-07-923-871C-6	Sequence 6, Appl
c 996	20	1	US-08-107-684B-31	Sequence 31, Appl	6	100.0	20	2	US-08-649-046-15	Sequence 15, Appl
c 997	20	1	US-08-185-301-2	Sequence 2, Appl	6	100.0	20	2	US-08-683-262B-10	Sequence 10, Appl
998	20	1	US-07-977-284A-108	Sequence 108, Appl	6	100.0	20	2	US-08-683-262B-12	Sequence 12, Appl
999	20	1	US-07-977-284A-116	Sequence 116, Appl	6	100.0	20	2	US-08-843-530B-10	Sequence 10, Appl
c1000	20	1	US-07-977-284A-118	Sequence 118, Appl	6	100.0	20	2	US-08-866-650-8	Sequence 8, Appl
1002	20	1	US-08-156-672-6	Sequence 6, Appl	6	100.0	20	2	US-08-256-426B-108	Sequence 108, Appl
c1003	20	1	US-08-372-783-229	Sequence 229, Appl	6	100.0	20	2	US-08-256-426B-116	Sequence 116, Appl
c1004	20	1	US-08-222-177A-217	Sequence 217, Appl	6	100.0	20	2	US-08-256-426B-118	Sequence 118, Appl
c1005	20	1	US-08-222-177A-324	Sequence 324, Appl	6	100.0	20	2	US-08-784-971-1	Sequence 1, Appl
c1006	20	1	US-08-222-177A-392	Sequence 392, Appl	6	100.0	20	2	US-09-044-508A-7	Sequence 7, Appl
c1007	20	1	US-08-259-745A-4	Sequence 4, Appl	6	100.0	20	2	US-08-910-408-88	Sequence 88, Appl
c1008	20	1	US-08-453-378-5	Sequence 5, Appl	6	100.0	20	2	US-08-910-408-176	Sequence 176, Appl
c1009	20	1	US-08-435-529-12	Sequence 12, Appl	6	100.0	20	2	US-08-955-138-20	Sequence 20, Appl
1011	20	1	US-08-437-648-64	Sequence 64, Appl	6	100.0	20	2	US-09-021-287-8	Sequence 8, Appl
c1012	20	1	US-08-479-173-1	Sequence 1, Appl	6	100.0	20	2	US-08-937-201C-45	Sequence 45, Appl
1013	20	1	US-08-373-124A-17	Sequence 17, Appl	6	100.0	20	2	US-08-743-637B-40	Sequence 40, Appl
c1014	20	1	US-08-317-220-13	Sequence 13, Appl	6	100.0	20	2	US-09-289-368-18	Sequence 18, Appl
c1015	20	1	US-08-379-072A-16	Sequence 16, Appl	6	100.0	20	2	US-09-289-368-29	Sequence 29, Appl
1016	20	1	US-08-478-039-62	Sequence 62, Appl	6	100.0	20	2	US-09-289-368-30	Sequence 30, Appl
c1017	20	1	US-08-137-627-5	Sequence 5, Appl	6	100.0	20	2	US-09-289-368-31	Sequence 31, Appl
c1018	20	1	US-08-137-627-7	Sequence 7, Appl	6	100.0	20	2	US-09-289-368-31	Sequence 31, Appl
1019	20	1	US-08-137-627-13	Sequence 13, Appl	6	100.0	20	2	US-08-904-901-77	Sequence 77, Appl
1020	20	1	US-08-137-627-17	Sequence 17, Appl	6	100.0	20	2	US-08-526-840B-40	Sequence 40, Appl
1021	20	1	US-08-271-880A-81	Sequence 81, Appl	6	100.0	20	2	US-09-045-106-7	Sequence 7, Appl
1022	20	1	US-08-271-880A-88	Sequence 88, Appl	6	100.0	20	2	US-08-940-250-15	Sequence 15, Appl
c1023	20	1	US-08-271-880A-176	Sequence 176, Appl	6	100.0	20	2	US-08-609-334-25	Sequence 25, Appl
1024	20	1	US-08-335-583C-21	Sequence 21, Appl	6	100.0	20	2	US-08-701-582D-9	Sequence 9, Appl
c1025	20	1	US-08-481-869-16	Sequence 16, Appl	6	100.0	20	2	US-08-343-998-2	Sequence 2, Appl
c1026	20	1	US-08-632-673B-5	Sequence 5, Appl	6	100.0	20	2	US-08-343-998-18	Sequence 18, Appl
c1027	20	1	US-08-426-819A-12	Sequence 12, Appl	6	100.0	20	2	US-08-742-183-80	Sequence 80, Appl
1028	20	1	US-08-426-819A-15	Sequence 15, Appl	6	100.0	20	2	US-08-652-265-13	Sequence 13, Appl
1029	20	1	US-08-469-802B-21	Sequence 21, Appl	6	100.0	20	2	US-09-357-073-26	Sequence 26, Appl
1030	20	1	US-08-244-646-12	Sequence 12, Appl	6	100.0	20	2	US-09-357-073-32	Sequence 32, Appl
c1031	20	1	US-08-476-349A-62	Sequence 62, Appl	6	100.0	20	2	US-08-745-892-19	Sequence 19, Appl
c1032	20	1	US-08-476-237-12	Sequence 12, Appl	6	100.0	20	2	US-08-755-587-59	Sequence 59, Appl
c1033	20	1	US-08-665-866-13	Sequence 13, Appl	6	100.0	20	2	US-09-289-267-11	Sequence 11, Appl
1034	20	1	US-08-273-594-6	Sequence 6, Appl	6	100.0	20	2	US-09-289-267-12	Sequence 12, Appl
1036	20	1	US-08-274-303-9	Sequence 9, Appl	6	100.0	20	2	US-09-289-267-13	Sequence 13, Appl
1037	20	1	US-08-531-556-9	Sequence 9, Appl	6	100.0	20	2	US-09-289-267-145	Sequence 145, Appl
c1038	20	1	US-08-472-416-9	Sequence 9, Appl	6	100.0	20	2	US-09-119-263-229	Sequence 229, Appl
1039	20	1	US-08-729-447-4	Sequence 4, Appl	6	100.0	20	2	US-09-344-001-21	Sequence 21, Appl
1040	20	1	US-08-891-463-20	Sequence 20, Appl	6	100.0	20	2	US-08-896-123-12	Sequence 12, Appl
c1041	20	1	US-08-832-883-45	Sequence 45, Appl	6	100.0	20	2	US-08-779-916A-33	Sequence 33, Appl
c1042	20	1	US-08-832-883-112	Sequence 112, Appl	6	100.0	20	2	US-09-041-780-13	Sequence 13, Appl
c1043	20	1	US-08-435-628-17	Sequence 17, Appl	6	100.0	20	2	US-08-889-503-6	Sequence 6, Appl
c1044	20	1	US-08-716-459-4	Sequence 4, Appl	6	100.0	20	2	US-08-777-266A-55	Sequence 55, Appl
c1045	20	1	US-08-559-303B-57	Sequence 57, Appl	6	100.0	20	2	US-08-545-196B-40	Sequence 40, Appl
c1046	20	2	US-08-267-803B-39	Sequence 39, Appl	6	100.0	20	2	US-08-961-469A-45	Sequence 45, Appl
1047	20	2	US-08-267-803B-58	Sequence 58, Appl	6	100.0	20	2	US-08-642-807A-13	Sequence 13, Appl
c1048	20	2	US-08-811-492-20	Sequence 20, Appl	6	100.0	20	2	US-09-057-913-320	Sequence 120, Appl
c1049	20	2			6	100.0	20	2	US-09-157-177-4	Sequence 4, Appl

c1123	6	100.0	20	3	US-09-157-177-34	Sequence 34, Appl	c1196	6	100.0	20	3	US-09-021-701-231	Sequence 231, App
c1124	6	100.0	20	3	US-08-891-789B-45	Sequence 45, Appl	c1197	6	100.0	20	3	US-09-021-701-232	Sequence 232, App
c1125	6	100.0	20	3	US-08-804-180C-13	Sequence 13, Appl	c1198	6	100.0	20	3	US-09-021-701-233	Sequence 233, App
c1126	6	100.0	20	3	US-09-011-479-1	Sequence 1, Appl	c1199	6	100.0	20	3	US-09-021-701-234	Sequence 234, App
c1127	6	100.0	20	3	US-09-128-494-38	Sequence 38, Appl	c1200	6	100.0	20	3	US-09-021-701-235	Sequence 235, App
c1128	6	100.0	20	3	US-09-249-730-77	Sequence 77, Appl	c1201	6	100.0	20	3	US-09-021-701-236	Sequence 236, App
c1129	6	100.0	20	3	US-08-872-855-19	Sequence 19, Appl	c1202	6	100.0	20	3	US-09-021-701-237	Sequence 237, App
c1130	6	100.0	20	3	US-08-872-855-23	Sequence 23, Appl	c1203	6	100.0	20	3	US-09-021-701-238	Sequence 238, App
c1131	6	100.0	20	3	US-09-418-641-36	Sequence 36, Appl	c1204	6	100.0	20	3	US-09-021-701-239	Sequence 239, App
c1132	6	100.0	20	3	US-09-418-641-37	Sequence 37, Appl	c1205	6	100.0	20	3	US-09-021-701-240	Sequence 240, App
c1133	6	100.0	20	3	US-09-069-886-3	Sequence 3, Appl	c1206	6	100.0	20	3	US-09-021-701-241	Sequence 241, App
c1134	6	100.0	20	3	US-09-069-886-29	Sequence 29, Appl	c1207	6	100.0	20	3	US-09-021-701-242	Sequence 242, App
c1135	6	100.0	20	3	US-09-287-796-25	Sequence 25, Appl	c1208	6	100.0	20	3	US-09-021-701-243	Sequence 243, App
c1136	6	100.0	20	3	US-08-523-894-55	Sequence 55, Appl	c1209	6	100.0	20	3	US-09-021-701-244	Sequence 244, App
c1137	6	100.0	20	3	US-09-094-919-6	Sequence 6, Appl	c1210	6	100.0	20	3	US-09-021-701-245	Sequence 245, App
c1138	6	100.0	20	3	US-09-428-584-24	Sequence 24, Appl	c1211	6	100.0	20	3	US-09-021-701-246	Sequence 246, App
c1139	6	100.0	20	3	US-09-428-584-25	Sequence 25, Appl	c1212	6	100.0	20	3	US-09-021-701-247	Sequence 247, App
c1140	6	100.0	20	3	US-08-882-046-31	Sequence 31, Appl	c1213	6	100.0	20	3	US-09-021-701-248	Sequence 248, App
c1141	6	100.0	20	3	US-08-882-046-73	Sequence 73, Appl	c1214	6	100.0	20	3	US-09-021-701-249	Sequence 249, App
c1142	6	100.0	20	3	US-09-164-023-15	Sequence 15, Appl	c1215	6	100.0	20	3	US-09-021-701-250	Sequence 250, App
c1143	6	100.0	20	3	US-09-286-904-18	Sequence 18, Appl	c1216	6	100.0	20	3	US-09-021-701-251	Sequence 251, App
c1144	6	100.0	20	3	US-09-286-904-28	Sequence 28, Appl	c1217	6	100.0	20	3	US-09-021-701-252	Sequence 252, App
c1145	6	100.0	20	3	US-09-286-904-53	Sequence 53, Appl	c1218	6	100.0	20	3	US-09-021-701-253	Sequence 253, App
c1146	6	100.0	20	3	US-09-286-904-82	Sequence 82, Appl	c1219	6	100.0	20	3	US-09-021-701-254	Sequence 254, App
c1147	6	100.0	20	3	US-09-418-640-73	Sequence 73, Appl	c1220	6	100.0	20	3	US-09-021-701-255	Sequence 255, App
c1148	6	100.0	20	3	US-08-834-497A-13	Sequence 13, Appl	c1221	6	100.0	20	3	US-09-021-701-256	Sequence 256, App
c1149	6	100.0	20	3	US-08-860-635A-4	Sequence 4, Appl	c1222	6	100.0	20	3	US-09-021-701-257	Sequence 257, App
c1150	6	100.0	20	3	US-09-121-286-8	Sequence 8, Appl	c1223	6	100.0	20	3	US-09-021-701-258	Sequence 258, App
c1151	6	100.0	20	3	US-09-206-656-1	Sequence 1, Appl	c1224	6	100.0	20	3	US-09-021-701-259	Sequence 259, App
c1152	6	100.0	20	3	US-09-249-215-81	Sequence 81, Appl	c1225	6	100.0	20	3	US-09-021-701-260	Sequence 260, App
c1153	6	100.0	20	3	US-09-249-215-88	Sequence 88, Appl	c1226	6	100.0	20	3	US-09-021-701-261	Sequence 261, App
c1154	6	100.0	20	3	US-09-249-215-176	Sequence 176, App	c1227	6	100.0	20	3	US-09-021-701-262	Sequence 262, App
c1155	6	100.0	20	3	US-09-288-461-24	Sequence 24, Appl	c1228	6	100.0	20	3	US-09-021-701-263	Sequence 263, App
c1156	6	100.0	20	3	US-09-288-461-27	Sequence 27, Appl	c1229	6	100.0	20	3	US-09-021-701-264	Sequence 264, App
c1157	6	100.0	20	3	US-09-288-461-30	Sequence 30, Appl	c1230	6	100.0	20	3	US-09-021-701-265	Sequence 265, App
c1158	6	100.0	20	3	US-09-087-194-15	Sequence 15, Appl	c1231	6	100.0	20	3	US-09-021-701-266	Sequence 266, App
c1159	6	100.0	20	3	US-09-484-345-23	Sequence 23, Appl	c1232	6	100.0	20	3	US-09-021-701-267	Sequence 267, App
c1160	6	100.0	20	3	US-08-809-326A-26	Sequence 26, Appl	c1233	6	100.0	20	3	US-09-021-701-268	Sequence 268, App
c1161	6	100.0	20	3	US-09-011-745-16	Sequence 16, Appl	c1234	6	100.0	20	3	US-09-021-701-269	Sequence 269, App
c1162	6	100.0	20	3	US-09-433-699-47	Sequence 47, Appl	c1235	6	100.0	20	3	US-09-021-701-270	Sequence 270, App
c1163	6	100.0	20	3	US-09-433-699-48	Sequence 48, Appl	c1236	6	100.0	20	3	US-09-021-701-271	Sequence 271, App
c1164	6	100.0	20	3	US-09-433-699-70	Sequence 70, Appl	c1237	6	100.0	20	3	US-09-021-701-272	Sequence 272, App
c1165	6	100.0	20	3	US-09-428-219-69	Sequence 69, Appl	c1238	6	100.0	20	3	US-09-021-701-273	Sequence 273, App
c1166	6	100.0	20	3	US-09-428-219-69	Sequence 69, Appl	c1239	6	100.0	20	3	US-09-021-701-274	Sequence 274, App
c1167	6	100.0	20	3	US-09-490-692-70	Sequence 70, Appl	c1240	6	100.0	20	3	US-09-021-701-275	Sequence 275, App
c1168	6	100.0	20	3	US-09-490-692-76	Sequence 76, Appl	c1241	6	100.0	20	3	US-09-021-701-276	Sequence 276, App
c1169	6	100.0	20	3	US-09-423-093-7	Sequence 7, Appl	c1242	6	100.0	20	3	US-09-021-701-277	Sequence 277, App
c1170	6	100.0	20	3	US-09-280-805-83	Sequence 83, Appl	c1243	6	100.0	20	3	US-09-021-701-278	Sequence 278, App
c1171	6	100.0	20	3	US-09-280-805-158	Sequence 158, App	c1244	6	100.0	20	3	US-09-021-701-279	Sequence 279, App
c1172	6	100.0	20	3	US-09-280-805-159	Sequence 159, App	c1245	6	100.0	20	3	US-09-021-701-280	Sequence 280, App
c1173	6	100.0	20	3	US-09-280-805-240	Sequence 240, App	c1246	6	100.0	20	3	US-09-021-701-281	Sequence 281, App
c1174	6	100.0	20	3	US-09-280-805-241	Sequence 241, App	c1247	6	100.0	20	3	US-09-021-701-282	Sequence 282, App
c1175	6	100.0	20	3	US-09-488-671-108	Sequence 108, App	c1248	6	100.0	20	3	US-09-021-701-283	Sequence 283, App
c1176	6	100.0	20	3	US-09-488-671-131	Sequence 131, App	c1249	6	100.0	20	3	US-09-021-701-284	Sequence 284, App
c1177	6	100.0	20	3	US-09-488-671-168	Sequence 168, App	c1250	6	100.0	20	3	US-09-021-701-285	Sequence 285, App
c1178	6	100.0	20	3	US-09-046-894-11	Sequence 11, Appl	c1251	6	100.0	20	3	US-09-021-701-286	Sequence 286, App
c1179	6	100.0	20	3	US-08-766-528-71	Sequence 71, Appl	c1252	6	100.0	20	3	US-09-021-701-287	Sequence 287, App
c1180	6	100.0	20	3	US-09-016-390-10	Sequence 10, Appl	c1253	6	100.0	20	3	US-09-021-701-288	Sequence 288, App
c1181	6	100.0	20	3	US-09-311-260-43	Sequence 43, Appl	c1254	6	100.0	20	3	US-09-021-701-289	Sequence 289, App
c1182	6	100.0	20	3	US-08-836-261A-46	Sequence 46, Appl	c1255	6	100.0	20	3	US-09-021-701-290	Sequence 290, App
c1183	6	100.0	20	3	US-08-836-261A-48	Sequence 48, Appl	c1256	6	100.0	20	3	US-09-021-701-291	Sequence 291, App
c1184	6	100.0	20	3	US-09-175-828-57	Sequence 57, Appl	c1257	6	100.0	20	3	US-09-021-701-292	Sequence 292, App
c1185	6	100.0	20	3	US-09-130-616-25	Sequence 25, Appl	c1258	6	100.0	20	3	US-09-021-701-293	Sequence 293, App
c1186	6	100.0	20	3	US-09-503-444A-13	Sequence 13, Appl	c1259	6	100.0	20	3	US-09-021-701-294	Sequence 294, App
c1187	6	100.0	20	3	US-09-038-637-90	Sequence 90, Appl	c1260	6	100.0	20	3	US-09-021-701-295	Sequence 295, App
c1188	6	100.0	20	3	US-09-038-637-102	Sequence 102, App	c1261	6	100.0	20	3	US-09-021-701-296	Sequence 296, App
c1189	6	100.0	20	3	US-08-800-215C-10	Sequence 10, Appl	c1262	6	100.0	20	3	US-09-021-701-297	Sequence 297, App
c1190	6	100.0	20	3	US-09-560-594-67	Sequence 67, Appl	c1263	6	100.0	20	3	US-09-021-701-298	Sequence 298, App
c1191	6	100.0	20	3	US-09-467-082-26	Sequence 26, Appl	c1264	6	100.0	20	3	US-09-021-701-299	Sequence 299, App
c1192	6	100.0	20	3	US-09-021-701-227	Sequence 227, App	c1265	6	100.0	20	3	US-09-021-701-300	Sequence 300, App
c1193	6	100.0	20	3	US-09-021-701-228	Sequence 228, App	c1266	6	100.0	20	3	US-09-021-701-301	Sequence 301, App
c1194	6	100.0	20	3	US-09-021-701-229	Sequence 229, App	c1267	6	100.0	20	3	US-09-021-701-302	Sequence 302, App
c1195	6	100.0	20	3	US-09-021-701-230	Sequence 230, App	c1268	6	100.0	20	3	US-09-021-701-303	Sequence 303, App

1269	6	100.0	20	4	US-09-389-855A-1	Sequence 17, Appl	c1342	6	100.0	20	4	US-09-830-910-5	Sequence 5, Appl
c1270	6	100.0	20	4	US-09-000-062-19	Sequence 19, Appl	c1343	6	100.0	20	4	US-09-689-914A-26	Sequence 26, Appl
1271	6	100.0	20	4	US-09-079-812E-4	Sequence 4, Appl	1344	6	100.0	20	4	US-09-861-159-20	Sequence 20, Appl
1272	6	100.0	20	4	US-09-668-822-1	Sequence 1, Appl	1345	6	100.0	20	4	US-09-861-159-21	Sequence 21, Appl
1273	6	100.0	20	4	US-09-268-922-83	Sequence 83, Appl	1346	6	100.0	20	4	US-09-861-159-22	Sequence 22, Appl
1274	6	100.0	20	4	US-09-218-207-398	Sequence 398, App	1347	6	100.0	20	4	US-09-861-159-41	Sequence 41, Appl
c1275	6	100.0	20	4	US-09-342-681C-62	Sequence 62, Appl	1348	6	100.0	20	4	US-09-861-159-72	Sequence 72, Appl
c1276	6	100.0	20	4	US-09-629-645A-159	Sequence 159, App	1349	6	100.0	20	4	US-09-861-159-73	Sequence 73, Appl
c1277	6	100.0	20	4	US-09-629-645A-160	Sequence 160, App	1350	6	100.0	20	4	US-09-600-770A-64	Sequence 64, Appl
1278	6	100.0	20	4	US-09-026-033-9	Sequence 9, Appl	1351	6	100.0	20	4	US-09-600-770A-67	Sequence 67, Appl
c1279	6	100.0	20	4	US-09-561-497-11	Sequence 11, Appl	c1352	6	100.0	20	4	US-09-600-770A-67	Sequence 67, Appl
c1280	6	100.0	20	4	US-09-561-497-12	Sequence 12, Appl	c1353	6	100.0	20	4	US-09-689-913A-26	Sequence 26, Appl
c1281	6	100.0	20	4	US-09-561-497-13	Sequence 13, Appl	1354	6	100.0	20	4	US-09-689-916A-26	Sequence 26, Appl
c1282	6	100.0	20	4	US-09-561-497-60	Sequence 60, Appl	1355	6	100.0	20	4	US-09-375-408-28	Sequence 28, Appl
c1283	6	100.0	20	4	US-09-561-497-61	Sequence 61, Appl	1356	6	100.0	20	4	US-09-659-845A-61	Sequence 61, Appl
c1284	6	100.0	20	4	US-09-306-446C-27	Sequence 27, Appl	1357	6	100.0	20	4	US-09-844-521-65	Sequence 65, Appl
1285	6	100.0	20	4	US-09-710-200-28	Sequence 28, Appl	c1358	6	100.0	20	4	US-09-629-644A-29	Sequence 29, Appl
1286	6	100.0	20	4	US-08-294-312B-37	Sequence 37, Appl	1359	6	100.0	20	4	US-09-629-644A-189	Sequence 189, App
1287	6	100.0	20	4	US-08-294-312B-45	Sequence 45, Appl	c1360	6	100.0	20	4	US-08-110-161A-4	Sequence 4, Appl
1288	6	100.0	20	4	US-08-294-312B-52	Sequence 52, Appl	c1361	6	100.0	20	4	US-08-110-161A-8	Sequence 8, Appl
1289	6	100.0	20	4	US-08-294-312B-62	Sequence 62, Appl	1362	6	100.0	20	4	US-09-898-361-81	Sequence 81, Appl
c1290	6	100.0	20	4	US-09-020-018-1	Sequence 1, Appl	1363	6	100.0	20	4	US-09-636-791A-31	Sequence 31, Appl
1291	6	100.0	20	4	US-09-659-791A-22	Sequence 22, Appl	c1364	6	100.0	20	4	US-09-657-346A-30	Sequence 30, Appl
1292	6	100.0	20	4	US-09-659-791A-52	Sequence 52, Appl	c1365	6	100.0	20	4	US-09-657-346A-105	Sequence 105, App
1293	6	100.0	20	4	US-09-659-791A-53	Sequence 53, Appl	c1366	6	100.0	20	4	US-09-657-346A-122	Sequence 122, App
1294	6	100.0	20	4	US-09-658-687A-31	Sequence 31, Appl	c1367	6	100.0	20	4	US-09-657-346A-173	Sequence 173, App
1295	6	100.0	20	4	US-09-658-687A-32	Sequence 32, Appl	c1368	6	100.0	20	4	US-09-668-313A-116	Sequence 116, App
c1296	6	100.0	20	4	US-09-798-096-57	Sequence 57, Appl	c1369	6	100.0	20	4	US-09-668-313A-117	Sequence 117, App
1297	6	100.0	20	4	US-09-657-474-83	Sequence 83, Appl	c1370	6	100.0	20	4	US-09-668-313A-118	Sequence 118, App
1298	6	100.0	20	4	US-09-387-341-225	Sequence 225, App	c1371	6	100.0	20	4	US-09-588-995A-86	Sequence 86, Appl
1299	6	100.0	20	4	US-09-844-634-32	Sequence 32, Appl	1372	6	100.0	20	4	US-08-454-353A-3	Sequence 3, Appl
c1300	6	100.0	20	4	US-09-844-634-141	Sequence 141, App	1373	6	100.0	20	4	US-08-754-477A-70	Sequence 70, Appl
1301	6	100.0	20	4	US-08-468-024B-37	Sequence 37, Appl	c1374	6	100.0	20	4	US-08-754-477A-89	Sequence 89, Appl
1302	6	100.0	20	4	US-08-468-024B-45	Sequence 45, Appl	1375	6	100.0	20	4	US-09-922-445-43	Sequence 43, Appl
1303	6	100.0	20	4	US-08-468-024B-52	Sequence 52, Appl	c1376	6	100.0	20	4	US-09-746-017-3	Sequence 3, Appl
1304	6	100.0	20	4	US-08-468-024B-62	Sequence 62, Appl	1377	6	100.0	20	4	US-09-580-497B-8	Sequence 8, Appl
1305	6	100.0	20	4	US-09-662-402A-16	Sequence 16, App	1378	6	100.0	20	4	US-09-582-734-21	Sequence 21, Appl
1306	6	100.0	20	4	US-09-657-452A-50	Sequence 50, Appl	c1379	6	100.0	20	4	US-09-422-978-3992	Sequence 3992, Ap
1307	6	100.0	20	4	US-09-360-545A-44	Sequence 44, App	c1380	6	100.0	20	4	US-09-422-978-4008	Sequence 4008, Ap
c1308	6	100.0	20	4	US-09-061-794-6	Sequence 6, Appl	c1381	6	100.0	20	4	US-09-422-978-4430	Sequence 4430, Ap
1309	6	100.0	20	4	US-09-705-299-23	Sequence 23, Appl	c1382	6	100.0	20	4	US-09-422-978-4532	Sequence 4532, Ap
1310	6	100.0	20	4	US-09-705-299-61	Sequence 61, Appl	c1383	6	100.0	20	4	US-09-422-978-4567	Sequence 4567, Ap
c1311	6	100.0	20	4	US-09-780-175-108	Sequence 108, App	1384	6	100.0	20	4	US-09-422-978-5624	Sequence 5624, Ap
c1312	6	100.0	20	4	US-09-640-101-18	Sequence 18, Appl	c1385	6	100.0	20	4	US-09-422-978-5961	Sequence 5961, Ap
c1313	6	100.0	20	4	US-09-640-101-28	Sequence 28, Appl	c1386	6	100.0	20	4	US-09-422-978-6199	Sequence 6199, Ap
c1314	6	100.0	20	4	US-09-640-101-53	Sequence 53, Appl	c1387	6	100.0	20	4	US-09-422-978-6560	Sequence 6560, Ap
c1315	6	100.0	20	4	US-09-640-101-82	Sequence 82, Appl	c1388	6	100.0	20	4	US-09-422-978-6565	Sequence 6565, Ap
c1316	6	100.0	20	4	US-09-746-694-34	Sequence 34, Appl	1389	6	100.0	20	4	US-09-422-978-6858	Sequence 6858, Ap
1317	6	100.0	20	4	US-09-517-467B-13	Sequence 13, App	c1390	6	100.0	20	4	US-09-422-978-7090	Sequence 7090, Ap
1318	6	100.0	20	4	US-09-517-467B-190	Sequence 190, App	c1391	6	100.0	20	4	US-09-422-978-7756	Sequence 7756, Ap
1319	6	100.0	20	4	US-09-517-467B-304	Sequence 304, App	c1392	6	100.0	20	4	US-09-422-978-7766	Sequence 7766, Ap
1320	6	100.0	20	4	US-09-517-467B-320	Sequence 320, App	c1393	6	100.0	20	4	US-09-422-978-7922	Sequence 7922, Ap
c1321	6	100.0	20	4	US-08-780-173A-63	Sequence 63, Appl	1394	6	100.0	20	4	US-09-422-978-8419	Sequence 8419, Ap
c1322	6	100.0	20	4	US-08-780-173A-69	Sequence 69, Appl	c1395	6	100.0	20	4	US-09-422-978-8605	Sequence 8605, Ap
c1323	6	100.0	20	4	US-08-626-285-8	Sequence 8, Appl	1396	6	100.0	20	4	US-09-422-978-8889	Sequence 8889, Ap
c1324	6	100.0	20	4	US-08-626-285-51	Sequence 51, Appl	1397	6	100.0	20	4	US-09-422-978-9198	Sequence 9198, Ap
c1325	6	100.0	20	4	US-08-626-285-52	Sequence 52, Appl	c1398	6	100.0	20	4	US-09-422-978-9385	Sequence 9385, Ap
c1326	6	100.0	20	4	US-08-626-285-53	Sequence 53, Appl	c1399	6	100.0	20	4	US-09-422-978-10148	Sequence 10148, A
c1327	6	100.0	20	4	US-08-626-285-54	Sequence 54, Appl	c1400	6	100.0	20	4	US-09-422-978-10383	Sequence 10383, A
c1328	6	100.0	20	4	US-09-091-952A-58	Sequence 58, Appl	1401	6	100.0	20	4	US-09-422-978-10412	Sequence 10412, A
1329	6	100.0	20	4	US-09-091-952A-113	Sequence 113, App	1402	6	100.0	20	4	US-09-422-978-10598	Sequence 10598, A
c1330	6	100.0	20	4	US-09-091-952A-153	Sequence 153, App	1403	6	100.0	20	4	US-09-422-978-10763	Sequence 10763, A
c1331	6	100.0	20	4	US-09-300-008B-39	Sequence 39, Appl	c1404	6	100.0	20	4	US-09-422-978-11599	Sequence 11599, A
c1332	6	100.0	20	4	US-09-360-416-83	Sequence 83, Appl	c1405	6	100.0	20	4	US-09-920-759-17	Sequence 17, Appl
1333	6	100.0	20	4	US-09-657-453A-66	Sequence 66, Appl	1406	6	100.0	20	4	US-09-920-759-58	Sequence 58, Appl
c1334	6	100.0	20	4	US-09-657-453A-94	Sequence 94, Appl	c1407	6	100.0	20	4	US-09-920-759-83	Sequence 83, Appl
1335	6	100.0	20	4	US-09-780-049-70	Sequence 70, Appl	1408	6	100.0	20	4	US-09-417-485D-22	Sequence 22, Appl
c1336	6	100.0	20	4	US-09-690-364-29	Sequence 29, Appl	c1409	6	100.0	20	4	US-09-060-299-62	Sequence 62, Appl
c1337	6	100.0	20	4	US-09-144-837-6	Sequence 6, Appl	c1410	6	100.0	20	4	US-09-060-299-240	Sequence 240, App
c1338	6	100.0	20	4	US-09-306-828-33	Sequence 33, Appl	c1411	6	100.0	20	4	US-09-060-299-261	Sequence 261, App
1339	6	100.0	20	4	US-09-706-197-24	Sequence 24, App	1412	6	100.0	20	4	US-09-060-299-357	Sequence 357, App
c1340	6	100.0	20	4	US-09-199-542B-13	Sequence 13, App	c1413	6	100.0	20	4	US-09-060-299-362	Sequence 362, App
c1341	6	100.0	20	4	US-09-199-542B-69	Sequence 69, Appl	c1414	6	100.0	20	4	US-08-857-636-31	Sequence 31, Appl



c1415 6 100.0 20 4 US-08-857-636-50 Sequence 50, Appl  
c1416 6 100.0 20 4 US-09-402-923A-62 Sequence 62, Appl  
c1417 6 100.0 20 4 US-09-402-923A-240 Sequence 240, Appl  
c1418 6 100.0 20 4 US-09-402-923A-357 Sequence 261, Appl  
c1419 6 100.0 20 4 US-09-402-923A-357 Sequence 357, Appl  
c1420 6 100.0 20 4 US-09-402-923A-362 Sequence 362, Appl  
c1421 6 100.0 20 4 US-09-165-019-3 Sequence 3, Appl  
c1422 6 100.0 20 4 US-09-198-452A-1309 Sequence 1309, Appl  
c1423 6 100.0 20 4 US-09-198-452A-1449 Sequence 1449, Appl  
c1424 6 100.0 20 4 US-09-198-452A-1459 Sequence 1459, Appl  
c1425 6 100.0 20 4 US-09-198-452A-1804 Sequence 1804, Appl  
c1426 6 100.0 20 4 US-09-198-452A-1874 Sequence 1874, Appl  
c1427 6 100.0 20 4 US-09-198-452A-2034 Sequence 2034, Appl  
c1428 6 100.0 20 4 US-09-198-452A-2236 Sequence 2236, Appl  
c1429 6 100.0 20 4 US-09-198-452A-2345 Sequence 2455, Appl  
c1430 6 100.0 20 4 US-09-198-452A-2503 Sequence 2503, Appl  
c1431 6 100.0 20 4 US-09-198-452A-2551 Sequence 2551, Appl  
c1432 6 100.0 20 4 US-09-198-452A-2552 Sequence 2552, Appl  
c1433 6 100.0 20 4 US-09-198-452A-2594 Sequence 2594, Appl  
c1434 6 100.0 20 4 US-09-198-452A-2702 Sequence 2702, Appl  
c1435 6 100.0 20 4 US-09-198-452A-2717 Sequence 2717, Appl  
c1436 6 100.0 20 4 US-09-198-452A-2727 Sequence 2727, Appl  
c1437 6 100.0 20 4 US-09-198-452A-2767 Sequence 2767, Appl  
c1438 6 100.0 20 4 US-09-198-452A-3301 Sequence 3301, Appl  
c1439 6 100.0 20 4 US-09-198-452A-3316 Sequence 3316, Appl  
c1440 6 100.0 20 4 US-09-198-452A-3325 Sequence 3325, Appl  
c1441 6 100.0 20 4 US-09-198-452A-3454 Sequence 3454, Appl  
c1442 6 100.0 20 4 US-09-198-452A-3459 Sequence 3459, Appl  
c1443 6 100.0 20 4 US-09-198-452A-3480 Sequence 3480, Appl  
c1444 6 100.0 20 4 US-09-198-452A-3494 Sequence 3494, Appl  
c1445 6 100.0 20 4 US-09-198-452A-3850 Sequence 3850, Appl  
c1446 6 100.0 20 4 US-09-198-452A-3916 Sequence 3916, Appl  
c1447 6 100.0 20 4 US-09-198-452A-3919 Sequence 3919, Appl  
c1448 6 100.0 20 4 US-09-198-452A-4119 Sequence 4119, Appl  
c1449 6 100.0 20 4 US-09-198-452A-4128 Sequence 4128, Appl  
c1450 6 100.0 20 4 US-09-198-452A-4312 Sequence 4312, Appl  
c1451 6 100.0 20 4 US-09-198-452A-4359 Sequence 4359, Appl  
c1452 6 100.0 20 4 US-09-198-452A-4581 Sequence 4581, Appl  
c1453 6 100.0 20 4 US-09-198-452A-4649 Sequence 4649, Appl  
c1454 6 100.0 20 4 US-09-198-452A-4695 Sequence 4695, Appl  
c1455 6 100.0 20 4 US-09-198-452A-4776 Sequence 4776, Appl  
c1456 6 100.0 20 4 US-09-198-452A-5133 Sequence 5133, Appl  
c1457 6 100.0 20 4 US-09-198-452A-5169 Sequence 5169, Appl  
c1458 6 100.0 20 4 US-09-198-452A-5406 Sequence 5406, Appl  
c1459 6 100.0 20 4 US-09-198-452A-5689 Sequence 5689, Appl  
c1460 6 100.0 20 4 US-09-198-452A-5829 Sequence 5829, Appl  
c1461 6 100.0 20 4 US-09-198-452A-6025 Sequence 6025, Appl  
c1462 6 100.0 20 4 US-09-198-452A-6212 Sequence 6212, Appl  
c1463 6 100.0 20 4 US-09-198-452A-6324 Sequence 6324, Appl  
c1464 6 100.0 20 4 US-09-198-452A-6387 Sequence 6387, Appl  
c1465 6 100.0 20 4 US-09-198-452A-6544 Sequence 6544, Appl  
c1466 6 100.0 20 4 US-09-198-452A-6607 Sequence 6607, Appl  
c1467 6 100.0 20 4 US-09-198-452A-6795 Sequence 6795, Appl  
c1468 6 100.0 20 4 US-09-198-452A-6819 Sequence 6819, Appl  
c1469 6 100.0 20 4 US-09-254-776B-19 Sequence 19, Appl  
c1470 6 100.0 20 4 US-09-254-776B-46 Sequence 46, Appl  
c1471 6 100.0 20 4 US-09-843-376-88 Sequence 88, Appl  
c1472 6 100.0 20 4 US-09-679-299A-55 Sequence 55, Appl  
c1473 6 100.0 20 4 US-09-679-299A-56 Sequence 56, Appl  
c1474 6 100.0 20 4 US-09-679-299A-86 Sequence 86, Appl  
c1475 6 100.0 20 4 US-09-601-144-1 Sequence 1, Appl  
c1476 6 100.0 20 4 US-09-636-399A-5 Sequence 5, Appl  
c1477 6 100.0 20 4 US-09-356-806-68 Sequence 68, Appl  
c1478 6 100.0 20 4 US-09-909-595-34 Sequence 34, Appl  
c1479 6 100.0 20 4 US-09-909-595-75 Sequence 75, Appl  
c1480 6 100.0 20 4 US-09-322-357-18 Sequence 18, Appl  
c1481 6 100.0 20 4 US-09-249-247-77 Sequence 77, Appl  
c1482 6 100.0 20 4 US-09-081-385-75 Sequence 75, Appl  
c1483 6 100.0 20 4 US-09-081-385-89 Sequence 89, Appl  
c1484 6 100.0 20 4 US-09-131-827A-7 Sequence 7, Appl  
c1485 6 100.0 20 4 US-09-629-644A-29 Sequence 29, Appl  
c1486 6 100.0 20 4 US-09-629-644A-189 Sequence 189, Appl  
c1487 6 100.0 20 4 US-09-780-172-59 Sequence 59, Appl

c1488 6 100.0 20 4 US-09-780-172-82 Sequence 82, Appl  
c1489 6 100.0 20 4 US-08-465-679-37 Sequence 37, Appl  
c1490 6 100.0 20 4 US-08-465-679-45 Sequence 45, Appl  
c1491 6 100.0 20 4 US-08-465-679-52 Sequence 52, Appl  
c1492 6 100.0 20 4 US-08-465-679-62 Sequence 62, Appl  
c1493 6 100.0 20 4 US-09-112-580-150 Sequence 150, Appl  
c1494 6 100.0 20 4 US-09-526-193A-140 Sequence 140, Appl  
c1495 6 100.0 20 4 US-10-027-983-39 Sequence 39, Appl  
c1496 6 100.0 20 4 US-08-210-143C-35 Sequence 35, Appl  
c1497 6 100.0 20 4 US-08-210-143C-43 Sequence 43, Appl  
c1498 6 100.0 20 4 US-10-139-842B-10 Sequence 10, Appl  
c1499 6 100.0 20 4 US-09-429-036-7 Sequence 7, Appl  
1500 6 100.0 20 4 US-09-876-242-7 Sequence 7, Appl

ALIGNMENTS

RESULT 1  
US-07-739-642-14/c  
; Sequence 14, Application US/07739642  
; Patent No. 5173427  
; GENERAL INFORMATION:  
; APPLICANT: Mallonee,, Richard L.  
; TITLE OF INVENTION: Vectors And Hosts With Increased  
; TITLE OF INVENTION: Expression Of HBcAg  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Richard R. Rodrick  
; STREET: 1 Becton Drive  
; CITY: Franklin Lakes  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07417-1880  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07739,642  
; FILING DATE: 19910801  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Stierwalt,, Brian K.  
; REGISTRATION NUMBER: 33,213  
; REFERENCE/DOCKET NUMBER: P-2272  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-848-5317  
; TELEFAX: 201-848-9228  
; INFORMATION FOR SEQ ID NO: 14:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-07-739-642-14

Query Match 100.0%; Score 6; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.5e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
Db 6 TCTGTT 1  
|||||

RESULT 2  
US-07-739-643-14/c  
; Sequence 14, Application US/07739643  
; Patent No. 5175094  
; GENERAL INFORMATION:  
; APPLICANT: Mallonee,, Richard L.



;; TITLE OF INVENTION: Increased Expression of HBcAg  
;; NUMBER OF SEQUENCES: 24  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Richard R. Rodrick  
;; STREET: 1 Becton Drive  
;; CITY: Franklin Lakes  
;; STATE: New Jersey  
;; COUNTRY: U.S.A.  
;; ZIP: 07417-1880  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/07/739,643  
;; FILING DATE: 19910801  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Stierwalt, Brian K.  
;; REGISTRATION NUMBER: 33,213  
;; REFERENCE/DOCKET NUMBER: P-2090  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 201-848-5317  
;; TELEFAX: 201-848-9228  
;; INFORMATION FOR SEQ ID NO: 14:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 8 base pairs  
;; TYPE: NUCLEIC ACID  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-07-739-643-14

Query Match 100.0%; Score 6; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.5e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
Db 6 TCTGTT 1

RESULT 3  
US-07-739-142-14/c  
;; Sequence 14, Application US/07739142  
;; Patent No. 5175272  
;; GENERAL INFORMATION:  
;; APPLICANT: Mallonee, Richard L.  
;; TITLE OF INVENTION: DNA Sequences With Increased Expression  
;; NUMBER OF SEQUENCES: 24  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Richard R. Rodrick  
;; STREET: 1 Becton Drive  
;; CITY: Franklin Lakes  
;; STATE: New Jersey  
;; COUNTRY: U.S.A.  
;; ZIP: 07417-1880  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/07/739,142  
;; FILING DATE: 19910801  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Stierwalt, Brian K.  
;; REGISTRATION NUMBER: 33,213  
;; REFERENCE/DOCKET NUMBER: P-2271  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 201-848-5317

;; TELEFAX: 201-848-9228  
;; INFORMATION FOR SEQ ID NO: 14:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 8 base pairs  
;; TYPE: NUCLEIC ACID  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-07-739-142-14

Query Match 100.0%; Score 6; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.5e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
Db 6 TCTGTT 1

RESULT 4  
US-09-989-789-529  
;; Sequence 529, Application US/09989789  
;; Patent No. 6588746  
;; GENERAL INFORMATION:  
;; APPLICANT: Liu, Qiang  
;; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
;; FILE REFERENCE: 8325-0011.20 / S11-US2  
;; CURRENT APPLICATION NUMBER: US/09/989,789  
;; CURRENT FILING DATE: 2002-03-25  
;; NUMBER OF SEQ ID NOS: 4085  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 529  
;; LENGTH: 9  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Description of Artificial Sequence: example target  
US-09-989-789-529

Query Match 100.0%; Score 6; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.8e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
Db 4 TCTGTT 9

RESULT 5  
US-09-989-789-531  
;; Sequence 531, Application US/09989789  
;; Patent No. 6588746  
;; GENERAL INFORMATION:  
;; APPLICANT: Liu, Qiang  
;; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
;; FILE REFERENCE: 8325-0011.20 / S11-US2  
;; CURRENT APPLICATION NUMBER: US/09/989,789  
;; CURRENT FILING DATE: 2002-03-25  
;; NUMBER OF SEQ ID NOS: 4085  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 531  
;; LENGTH: 9  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Description of Artificial Sequence: example target  
US-09-989-789-531

Query Match 100.0%; Score 6; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.8e+07;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGTT 6  
|||||  
Db 1 TCTGTT 6

RESULT 6  
US-07-739-642-13/c  
; Sequence 13, Application US/07739642  
; Patent No. 5173427  
; GENERAL INFORMATION:  
; APPLICANT: Mallonee,, Richard L.  
; TITLE OF INVENTION: Vectors And Hosts With Increased  
; Expression Of Hbcag  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Richard R. Rodrick  
; STREET: 1 Becton Drive  
; CITY: Franklin Lakes  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07417-1880

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: 19910801  
; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
; NAME: Stierwalt, Brian K.  
; REGISTRATION NUMBER: 33,213  
; REFERENCE/DOCKET NUMBER: P-2272  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-848-5317  
; TELEFAX: 201-848-9228  
; INFORMATION FOR SEQ ID NO: 13:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-07-739-642-13

Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGTT 6  
|||||  
Db 6 TCTGTT 1

RESULT 7  
US-07-739-643-13/c  
; Sequence 13, Application US/07739643  
; Patent No. 5175094  
; GENERAL INFORMATION:  
; APPLICANT: Mallonee,, Richard L.  
; TITLE OF INVENTION: Increased Expression of Hbcag  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Richard R. Rodrick  
; STREET: 1 Becton Drive  
; CITY: Franklin Lakes  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07417-1880  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07739,643  
FILING DATE: 19910801  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Stierwalt,, Brian K.  
REGISTRATION NUMBER: 33,213  
REFERENCE/DOCKET NUMBER: P-2090  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-848-5317  
TELEFAX: 201-848-9228  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-07-739-643-13

Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGTT 6  
|||||  
Db 6 TCTGTT 1

RESULT 8  
US-07-739-142-13/c  
; Sequence 13, Application US/07739142  
; Patent No. 5175272  
; GENERAL INFORMATION:  
; APPLICANT: Mallonee,, Richard L.  
; TITLE OF INVENTION: DNA Sequences With Increased Expression  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Richard R. Rodrick  
; STREET: 1 Becton Drive  
; CITY: Franklin Lakes  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07417-1880

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: 19910801  
; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Stierwalt,, Brian K.  
REGISTRATION NUMBER: 33,213  
REFERENCE/DOCKET NUMBER: P-2271  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-848-5317  
TELEFAX: 201-848-9228  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-07-739-142-13

Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
|||||  
Db 6 TCTGTT 1

RESULT 9  
US-08-431-625-1  
; Sequence 1, Application US/08431625  
; Patent No. 5612469  
; GENERAL INFORMATION:  
; APPLICANT: Goodchild, John  
; TITLE OF INVENTION: Enhancement Of Ribozyme Catalytic  
; TITLE OF INVENTION: Activity By A Neighboring Facilitator Oligonucleotide  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Allegretti & Witcoff, Ltd.  
; STREET: 10 South Wacker Drive  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: U.S.A.  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/431.625  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/138,896  
; FILING DATE:  
; APPLICATION NUMBER: US 07/830,713  
; FILING DATE: 04-FEB-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sarussi, Steven J.  
; REGISTRATION NUMBER: 32,784  
; REFERENCE/DOCKET NUMBER: 91,869  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-715-1000  
; TELEFAX: 312-715-1234  
; TELEX: 910-221-5317  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; MOLECULE TYPE: linear  
; FEATURE:  
; NAME/KEY: misc RNA  
; LOCATION: 1..10  
; OTHER INFORMATION: /function= "Ribozyme Facilitator"  
US-08-431-625-1

Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
|||||  
Db 5 TCTGTT 10

RESULT 10  
US-08-440-787A-66  
; Sequence 66, Application US/08440787A  
; Patent No. 5770434  
; GENERAL INFORMATION:  
; APPLICANT: Huse, William D.

; TITLE OF INVENTION: Soluble Peptides Having Constrained,  
; TITLE OF INVENTION: Secondary Conformation in Solution and Method of Making  
; TITLE OF INVENTION: Same.  
; NUMBER OF SEQUENCES: 174  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell & Flores LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/440,787A  
; FILING DATE: 15-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/978,893  
; FILING DATE: 10-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-IX 1586  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 66:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-440-787A-66

Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
|||||  
Db 4 TCTGTT 9

RESULT 11  
US-08-388-353-777  
; Sequence 777, Application US/08388353  
; Patent No. 6010895  
; GENERAL INFORMATION:  
; APPLICANT: Deacon, Nicholas J.  
; APPLICANT: Learmont, Jennifer C.  
; APPLICANT: McPhee, Dale A.  
; APPLICANT: Crowe, Suzanne  
; APPLICANT: Cooper, David  
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1  
; NUMBER OF SEQUENCES: 800  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Scully, Scott, Murphy & Presser  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: New York  
; COUNTRY: United States  
; ZIP: 11530  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/388,353

```

; FILING DATE: 14-FEB-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9606
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 777:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-388-353-777

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.5e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6
Db 5 TCTGTT 10

RESULT 12
US-08-388-353-778
; Sequence 778, Application US/08388353
; Patent No. 6010895
; GENERAL INFORMATION:
; APPLICANT: Deacon, Nicholas J.
; APPLICANT: Learmont, Jennifer C.
; APPLICANT: McPhee, Dale A.
; APPLICANT: Crowe, Suzanne
; APPLICANT: Cooper, David
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 800
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy & Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/388,353
; FILING DATE: 14-FEB-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9606
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 779:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-388-353-779

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.5e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6
Db 5 TCTGTT 10

RESULT 13
US-08-388-353-779
; Sequence 779, Application US/08388353
; Patent No. 6010895
; GENERAL INFORMATION:
; APPLICANT: Deacon, Nicholas J.
; APPLICANT: Learmont, Jennifer C.
; APPLICANT: McPhee, Dale A.
; APPLICANT: Crowe, Suzanne
; APPLICANT: Cooper, David
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 800
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy & Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/388,353
; FILING DATE: 14-FEB-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9606
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 779:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-388-353-779

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.5e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6
Db 3 TCTGTT 8

RESULT 14
US-08-388-353-780
; Sequence 780, Application US/08388353
; Patent No. 6010895
; GENERAL INFORMATION:
; APPLICANT: Deacon, Nicholas J.
; APPLICANT: Learmont, Jennifer C.
; APPLICANT: McPhee, Dale A.
; APPLICANT: Crowe, Suzanne
; APPLICANT: Cooper, David
```

```

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.5e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6
Db 4 TCTGTT 9

RESULT 13
US-08-388-353-779
; Sequence 779, Application US/08388353
; Patent No. 6010895
; GENERAL INFORMATION:
; APPLICANT: Deacon, Nicholas J.
; APPLICANT: Learmont, Jennifer C.
; APPLICANT: McPhee, Dale A.
; APPLICANT: Crowe, Suzanne
; APPLICANT: Cooper, David
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 800
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy & Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/388,353
; FILING DATE: 14-FEB-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9606
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 779:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-388-353-779

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.5e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6
Db 3 TCTGTT 8

RESULT 14
US-08-388-353-780
; Sequence 780, Application US/08388353
; Patent No. 6010895
; GENERAL INFORMATION:
; APPLICANT: Deacon, Nicholas J.
; APPLICANT: Learmont, Jennifer C.
; APPLICANT: McPhee, Dale A.
; APPLICANT: Crowe, Suzanne
; APPLICANT: Cooper, David
```

;; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1  
;; NUMBER OF SEQUENCES: 800  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Scully, Scott, Murphy & Presser  
;; STREET: 400 Garden City Plaza  
;; CITY: Garden City  
;; STATE: New York  
;; COUNTRY: United States  
;; ZIP: 11530  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent in Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/388,353  
;; FILING DATE: 14-FEB-1995  
;; CLASSIFICATION: 424  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Digiglio, Frank S.  
;; REGISTRATION NUMBER: 31,346  
;; REFERENCE/DOCKET NUMBER: 9606  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (516) 742-4343  
;; TELEFAX: (516) 742-4366  
;; TELEX: 230 901 SANS UR  
;; INFORMATION FOR SEQ ID NO: 780:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 10 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: DNA (genomic)  
;; US-08-388-353-780

Query Match 100.0%; Score 6; DB 3; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
Db 2 TCTGTT 7

RESULT 15  
US-08-388-353-781  
;; Sequence 781, Application US/08388353  
;; Patent No. 6010895  
;; GENERAL INFORMATION:  
;; APPLICANT: Deacon, Nicholas J.  
;; APPLICANT: Learmont, Jennifer C.  
;; APPLICANT: McPhee, Dale A.  
;; APPLICANT: Crowe, Suzanne  
;; APPLICANT: Cooper, David  
;; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1  
;; NUMBER OF SEQUENCES: 800  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Scully, Scott, Murphy & Presser  
;; STREET: 400 Garden City Plaza  
;; CITY: Garden City  
;; STATE: New York  
;; COUNTRY: United States  
;; ZIP: 11530  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent in Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/388,353  
;; FILING DATE: 14-FEB-1995  
;; CLASSIFICATION: 424  
;; ATTORNEY/AGENT INFORMATION:

;; NAME: Digiglio, Frank S.  
;; REGISTRATION NUMBER: 31,346  
;; REFERENCE/DOCKET NUMBER: 9606  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (516) 742-4343  
;; TELEFAX: (516) 742-4366  
;; TELEX: 230 901 SANS UR  
;; INFORMATION FOR SEQ ID NO: 781:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 10 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: DNA (genomic)  
;; US-08-388-353-781

Query Match 100.0%; Score 6; DB 3; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.5e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGTT 6  
Db 1 TCTGTT 6

Search completed: September 1, 2004, 02:35:02  
Job time : 46.3 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 62.1667 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098a-1\_copy\_1428\_1437

Perfect score: 10

Sequence: 1 ggcagctggc 10

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Issued Patents NA.\*

- 1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PTCUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	10	100.0	20	2	US-08-334-545-4
C 2	10	100.0	20	3	US-09-560-594-35
C 3	10	100.0	20	4	US-09-467-642-15
C 4	10	100.0	21	4	US-09-423-890-38
C 5	10	100.0	23	2	US-08-332-562A-105
C 6	10	100.0	23	2	US-08-332-562A-106
C 7	10	100.0	24	4	US-09-870-956-40
C 8	10	100.0	27	4	US-09-339-922A-45
C 9	10	100.0	27	4	US-09-339-922A-89
C 10	10	100.0	27	4	US-09-339-922A-91
C 11	10	100.0	27	4	US-09-016-061-45
C 12	10	100.0	27	4	US-09-016-061-89
C 13	10	100.0	27	4	US-09-016-061-91
C 14	10	100.0	28	3	US-08-959-381A-8
C 15	10	100.0	34	1	US-08-373-124A-26
C 16	10	100.0	34	1	US-08-435-628-26
C 17	10	100.0	40	2	US-08-483-685-20
C 18	10	100.0	40	2	US-07-965-285-20
C 19	10	100.0	40	2	US-08-487-231-20
C 20	10	100.0	40	3	US-09-201-912-20
C 21	10	100.0	51	4	US-09-443-199C-573
C 22	10	100.0	51	4	US-09-443-199C-574
C 23	10	100.0	57	4	US-09-333-922A-18
C 24	10	100.0	57	4	US-09-333-922A-27
C 25	10	100.0	57	4	US-08-791-391A-18
C 26	10	100.0	57	4	US-08-791-391A-27
C 27	10	100.0	57	4	US-09-016-061-18

28	10	100.0	57	4	US-09-016-061-27	Sequence 27, Appl
29	10	100.0	59	4	US-08-388-852B-34	Sequence 34, Appl
30	10	100.0	68	2	US-08-808-620-7	Sequence 7, Appl
31	10	100.0	69	2	US-08-808-620-8	Sequence 8, Appl
C 32	10	100.0	84	2	US-08-788-943A-14	Sequence 14, Appl
C 33	10	100.0	84	5	PCT-US96-00952-15	Sequence 15, Appl
C 34	10	100.0	87	2	US-08-788-943A-15	Sequence 15, Appl
35	10	100.0	87	5	PCT-US96-00952-16	Sequence 16, Appl
36	10	100.0	127	4	US-08-857-046A-24	Sequence 24, Appl
37	10	100.0	135	3	US-09-018-635-36	Sequence 36, Appl
38	10	100.0	135	4	US-09-912-962-36	Sequence 36, Appl
C 39	10	100.0	170	2	US-08-888-497-27	Sequence 27, Appl
C 40	10	100.0	170	4	US-09-362-230-27	Sequence 27, Appl
C 41	10	100.0	170	5	PCT-US94-07926-27	Sequence 27, Appl
C 42	10	100.0	194	4	US-09-833-381-1717	Sequence 1717, Ap
C 43	10	100.0	202	4	US-09-621-976-18376	Sequence 18376, A
C 44	10	100.0	210	4	US-09-547-435-15	Sequence 15, Appl
C 45	10	100.0	213	2	US-08-676-279-36	Sequence 36, Appl
C 46	10	100.0	217	4	US-09-621-976-15568	Sequence 15568, A
47	10	100.0	219	4	US-09-489-039A-3652	Sequence 3652, Ap
C 48	10	100.0	226	4	US-09-016-434-25	Sequence 25, Appl
C 49	10	100.0	226	4	US-09-023-655-1451	Sequence 1451, Ap
C 50	10	100.0	231	3	US-08-444-818-78	Sequence 78, Appl
C 51	10	100.0	237	2	US-08-530-290-8	Sequence 8, Appl
C 52	10	100.0	240	2	US-08-537-811-39	Sequence 39, Appl
C 53	10	100.0	249	4	US-09-382-552-37	Sequence 37, Appl
C 54	10	100.0	261	4	US-09-489-039A-2953	Sequence 2953, Ap
C 55	10	100.0	262	4	US-09-016-434-455	Sequence 455, App
C 56	10	100.0	263	4	US-09-016-434-505	Sequence 505, App
57	10	100.0	264	3	US-08-943-731-172	Sequence 172, App
58	10	100.0	267	4	US-09-304-603A-8	Sequence 8, Appl
59	10	100.0	270	4	US-09-489-039A-104	Sequence 104, App
C 60	10	100.0	276	4	US-09-313-294A-120	Sequence 120, App
C 61	10	100.0	284	4	US-09-313-294A-1252	Sequence 1252, Ap
C 62	10	100.0	285	4	US-09-313-294A-1547	Sequence 1547, Ap
63	10	100.0	288	4	US-09-621-976-14256	Sequence 14256, A
64	10	100.0	291	1	US-08-347-492B-3	Sequence 3, Appl
65	10	100.0	291	2	US-08-798-143-3	Sequence 3, Appl
66	10	100.0	291	2	US-08-458-355A-1	Sequence 1, Appl
67	10	100.0	291	3	US-08-613-822-1	Sequence 1, Appl
68	10	100.0	291	4	US-09-479-729B-1	Sequence 1, Appl
69	10	100.0	291	4	US-09-496-273-1	Sequence 1, Appl
70	10	100.0	291	4	US-09-261-201A-1	Sequence 1, Appl
71	10	100.0	291	4	US-09-503-219B-1	Sequence 1, Appl
72	10	100.0	291	4	US-09-717-209-1	Sequence 1, Appl
73	10	100.0	291	5	PCT-US95-15484-3	Sequence 3, Appl
C 74	10	100.0	296	2	US-08-690-011A-32	Sequence 32, Appl
C 75	10	100.0	296	4	US-09-299-495F-32	Sequence 32, Appl
C 76	10	100.0	296	4	US-09-313-294A-5978	Sequence 5978, Ap
C 77	10	100.0	304	1	US-08-358-171-23	Sequence 23, Appl
C 78	10	100.0	304	3	US-09-090-947-23	Sequence 23, Appl
C 79	10	100.0	304	4	US-09-313-294A-4400	Sequence 4400, Ap
C 80	10	100.0	314	1	US-08-282-951-1	Sequence 1, Appl
C 81	10	100.0	314	1	US-08-282-951-3	Sequence 3, Appl
C 82	10	100.0	314	1	US-08-282-951-4	Sequence 4, Appl
C 83	10	100.0	317	4	US-09-621-976-14763	Sequence 14763, A
C 84	10	100.0	318	4	US-09-489-039A-5344	Sequence 5344, Ap
C 85	10	100.0	320	1	US-08-036-388-1	Sequence 1, Appl
C 86	10	100.0	321	4	US-09-339-922A-3	Sequence 3, Appl
C 87	10	100.0	321	4	US-09-339-922A-7	Sequence 7, Appl
C 88	10	100.0	321	4	US-09-339-922A-31	Sequence 31, Appl
C 89	10	100.0	321	4	US-08-791-391A-3	Sequence 3, Appl
C 90	10	100.0	321	4	US-08-791-391A-7	Sequence 7, Appl
C 91	10	100.0	321	4	US-08-791-391A-31	Sequence 31, Appl
C 92	10	100.0	321	4	US-09-016-061-3	Sequence 3, Appl
C 93	10	100.0	321	4	US-09-016-061-7	Sequence 7, Appl
C 94	10	100.0	321	4	US-09-016-061-31	Sequence 31, Appl
C 95	10	100.0	341	4	US-09-304-603A-9	Sequence 9, Appl
C 96	10	100.0	347	4	US-09-621-976-14170	Sequence 14170, A
C 97	10	100.0	366	4	US-09-489-039A-5532	Sequence 5532, Ap
C 98	10	100.0	391	3	US-08-444-818-80	Sequence 80, Appl
C 99	10	100.0	393	1	US-08-053-006-2	Sequence 2, Appl
C 100	10	100.0	394	4	US-09-833-381-1587	Sequence 1587, Ap

C 101	10	100.0	396	4	US-09-134-001C-1996	Sequence 1996, Ap	174	10	100.0	541	2	US-07-965-285-37	Sequence 37, Appl
C 102	10	100.0	399	4	US-09-621-976-15062	Sequence 15062, A	C 175	10	100.0	541	2	US-07-965-285-37	Sequence 37, Appl
C 103	10	100.0	408	4	US-09-489-039A-2541	Sequence 2541, Ap	C 176	10	100.0	541	2	US-08-487-231-36	Sequence 36, Appl
C 104	10	100.0	408	4	US-09-489-039A-5369	Sequence 5369, Ap	C 177	10	100.0	541	2	US-08-487-231-37	Sequence 37, Appl
C 105	10	100.0	410	4	US-09-684-385-5	Sequence 5, Appli	C 178	10	100.0	541	2	US-08-487-231-37	Sequence 37, Appl
C 106	10	100.0	412	4	US-09-621-976-368	Sequence 368, App	C 179	10	100.0	541	2	US-09-201-912-36	Sequence 36, Appl
C 107	10	100.0	417	4	US-09-312-283C-349	Sequence 349, Appl	C 180	10	100.0	541	2	US-09-201-912-37	Sequence 37, Appl
C 108	10	100.0	418	2	US-08-927-307-7	Sequence 7, Appli	C 181	10	100.0	541	3	US-09-201-912-37	Sequence 37, Appl
C 109	10	100.0	418	3	US-09-385-947-7	Sequence 7, Appli	C 182	10	100.0	549	4	US-09-516-914-20	Sequence 20, Appl
C 110	10	100.0	419	3	US-08-905-223-195	Sequence 195, App	C 183	10	100.0	552	4	US-09-352-991A-8103	Sequence 8103, Ap
C 111	10	100.0	422	4	US-09-621-976-3625	Sequence 3625, Ap	C 184	10	100.0	552	4	US-09-489-039A-7156	Sequence 7156, Ap
C 112	10	100.0	424	4	US-09-641-638-243	Sequence 243, App	C 185	10	100.0	557	4	US-09-918-686-4	Sequence 4, Appli
C 113	10	100.0	424	4	US-09-641-638-244	Sequence 244, App	C 186	10	100.0	557	4	US-09-621-976-3509	Sequence 3509, Ap
C 114	10	100.0	424	4	US-09-641-638-245	Sequence 245, App	C 187	10	100.0	559	1	US-08-081-072-16	Sequence 16, Appl
C 115	10	100.0	426	3	US-08-959-381A-5	Sequence 5, Appli	C 188	10	100.0	559	1	US-08-081-072-16	Sequence 16, Appl
C 116	10	100.0	432	4	US-09-252-991A-12101	Sequence 12101, A	C 189	10	100.0	559	1	US-08-449-093A-16	Sequence 16, Appl
C 117	10	100.0	440	4	US-09-118-554-32	Sequence 32, Appl	C 190	10	100.0	559	1	US-08-449-093A-16	Sequence 16, Appl
C 118	10	100.0	440	4	US-09-118-627-32	Sequence 32, Appl	C 191	10	100.0	559	4	US-09-621-976-10449	Sequence 10449, A
C 119	10	100.0	440	4	US-09-602-877A-32	Sequence 32, Appl	C 192	10	100.0	570	4	US-09-976-594-534	Sequence 534, App
C 120	10	100.0	441	4	US-09-252-991A-14798	Sequence 14798, A	C 193	10	100.0	571	4	US-09-621-976-3595	Sequence 3595, Ap
C 121	10	100.0	444	4	US-09-252-991A-16043	Sequence 16043, A	C 194	10	100.0	572	3	US-09-385-982-429	Sequence 429, App
C 122	10	100.0	451	4	US-09-621-976-10638	Sequence 10638, A	C 195	10	100.0	572	4	US-09-621-976-3327	Sequence 3327, Ap
C 123	10	100.0	457	4	US-09-621-976-3521	Sequence 3521, Ap	C 196	10	100.0	574	3	US-09-073-297-23	Sequence 23, Appl
C 124	10	100.0	470	2	US-08-967-101-99	Sequence 99, Appl	C 197	10	100.0	575	4	US-09-118-554-65	Sequence 65, Appl
C 125	10	100.0	470	2	US-08-592-541-99	Sequence 99, Appl	C 198	10	100.0	575	4	US-09-118-554-65	Sequence 65, Appl
C 126	10	100.0	470	3	US-09-124-698-99	Sequence 99, Appl	C 199	10	100.0	575	4	US-09-602-877A-65	Sequence 65, Appl
C 127	10	100.0	470	3	US-09-127-480-99	Sequence 99, Appl	C 200	10	100.0	585	4	US-09-489-039A-5252	Sequence 5252, Ap
C 128	10	100.0	470	3	US-08-456-841C-99	Sequence 99, Appl	C 201	10	100.0	588	4	US-09-547-435-19	Sequence 19, Appl
C 129	10	100.0	470	4	US-09-124-523-99	Sequence 99, Appl	C 202	10	100.0	591	3	US-09-385-982-263	Sequence 263, App
C 130	10	100.0	470	4	US-09-636-796A-99	Sequence 99, Appl	C 203	10	100.0	591	3	US-09-385-982-263	Sequence 263, App
C 131	10	100.0	470	4	US-08-431-048F-99	Sequence 99, Appl	C 204	10	100.0	593	2	US-08-974-546-4	Sequence 4, Appli
C 132	10	100.0	471	2	US-08-858-767-29	Sequence 29, Appl	C 205	10	100.0	595	3	US-09-385-982-264	Sequence 264, App
C 133	10	100.0	471	2	US-08-863-028-99	Sequence 29, Appl	C 206	10	100.0	600	3	US-08-882-501-26	Sequence 26, Appl
C 134	10	100.0	471	4	US-09-252-991A-12321	Sequence 12321, A	C 207	10	100.0	600	4	US-09-669-751-254	Sequence 254, App
C 135	10	100.0	471	4	US-09-621-976-15729	Sequence 15729, A	C 208	10	100.0	601	4	US-09-814-951A-12	Sequence 12, Appl
C 136	10	100.0	474	4	US-09-252-991A-983	Sequence 983, App	C 209	10	100.0	604	4	US-09-621-976-17651	Sequence 17651, A
C 137	10	100.0	474	4	US-09-621-976-14769	Sequence 14769, A	C 210	10	100.0	606	4	US-09-328-352-834	Sequence 834, App
C 138	10	100.0	477	4	US-09-621-976-12540	Sequence 12540, Ap	C 211	10	100.0	606	4	US-09-023-655-296	Sequence 296, App
C 139	10	100.0	480	4	US-09-252-991A-2456	Sequence 2456, Ap	C 212	10	100.0	606	4	US-09-489-039A-3328	Sequence 3328, Ap
C 140	10	100.0	486	4	US-09-489-039A-2102	Sequence 2102, Ap	C 213	10	100.0	606	4	US-09-489-039A-4821	Sequence 4821, Ap
C 141	10	100.0	486	4	US-09-621-976-76	Sequence 76, Appl	C 214	10	100.0	609	4	US-09-540-236-926	Sequence 926, App
C 142	10	100.0	486	4	US-09-621-976-3934	Sequence 3934, Ap	C 215	10	100.0	621	2	US-08-853-659A-24	Sequence 24, Appl
C 143	10	100.0	491	4	US-08-976-259-50	Sequence 50, Appl	C 216	10	100.0	638	1	US-08-469-667-1	Sequence 1, Appli
C 144	10	100.0	495	4	US-09-621-976-3510	Sequence 3510, Ap	C 217	10	100.0	638	5	US-09-224-110-1	Sequence 1, Appli
C 145	10	100.0	498	4	US-09-489-039A-2228	Sequence 2228, Ap	C 218	10	100.0	638	5	PCT-US95-07289-1	Sequence 1, Appli
C 146	10	100.0	501	4	US-09-621-976-15547	Sequence 15547, A	C 219	10	100.0	639	4	US-09-489-039A-3386	Sequence 3386, Ap
C 147	10	100.0	503	4	US-08-833-361-1417	Sequence 1417, Ap	C 220	10	100.0	640	4	US-09-160-221A-1	Sequence 1, Appli
C 148	10	100.0	504	4	US-09-621-976-13615	Sequence 13615, A	C 221	10	100.0	641	1	US-08-462-965A-1	Sequence 1, Appli
C 149	10	100.0	504	4	US-09-621-976-13617	Sequence 13617, A	C 222	10	100.0	641	1	US-09-036-985A-1	Sequence 1, Appli
C 150	10	100.0	510	1	US-08-053-006-3	Sequence 3, Appli	C 223	10	100.0	642	4	US-09-408-020-63	Sequence 63, Appl
C 151	10	100.0	510	4	US-09-489-039A-2569	Sequence 2569, Ap	C 224	10	100.0	645	4	US-09-252-991A-6921	Sequence 6921, Ap
C 152	10	100.0	516	4	US-09-252-991A-8000	Sequence 8000, Ap	C 225	10	100.0	647	4	US-09-621-976-2775	Sequence 2775, Ap
C 153	10	100.0	518	4	US-09-833-361-754	Sequence 754, App	C 226	10	100.0	648	4	US-09-489-039A-5677	Sequence 5677, Ap
C 154	10	100.0	521	4	US-09-621-976-1884	Sequence 1884, Ap	C 227	10	100.0	651	4	US-09-894-844-13	Sequence 13, Appl
C 155	10	100.0	523	1	US-08-460-806-18	Sequence 18, Appl	C 228	10	100.0	654	3	US-09-040-984-27	Sequence 27, Appl
C 156	10	100.0	523	1	US-08-460-806-20	Sequence 20, Appl	C 229	10	100.0	654	4	US-09-123-912-27	Sequence 27, Appl
C 157	10	100.0	523	1	US-08-460-806-20	Sequence 20, Appl	C 230	10	100.0	654	4	US-09-643-597-27	Sequence 27, Appl
C 158	10	100.0	523	1	US-08-325-630-18	Sequence 18, Appl	C 231	10	100.0	654	4	US-09-480-884A-27	Sequence 27, Appl
C 159	10	100.0	523	1	US-08-325-630-20	Sequence 20, Appl	C 232	10	100.0	654	4	US-09-542-615A-27	Sequence 27, Appl
C 160	10	100.0	523	1	US-08-325-630-20	Sequence 20, Appl	C 233	10	100.0	654	4	US-09-606-421B-27	Sequence 27, Appl
C 161	10	100.0	525	1	US-08-468-709B-3	Sequence 3, Appli	C 234	10	100.0	654	4	US-09-221-107-27	Sequence 27, Appl
C 162	10	100.0	525	2	US-08-241-664B-3	Sequence 3, Appli	C 235	10	100.0	655	2	US-08-812-645-2	Sequence 2, Appli
C 163	10	100.0	525	5	PCT-US93-03936-3	Sequence 3, Appli	C 236	10	100.0	655	4	US-09-016-434-132	Sequence 132, App
C 164	10	100.0	528	4	US-09-540-236-1525	Sequence 1525, Ap	C 237	10	100.0	657	4	US-09-489-039A-2063	Sequence 2063, Ap
C 165	10	100.0	532	4	US-09-833-361-986	Sequence 986, App	C 238	10	100.0	661	4	US-09-205-258-79	Sequence 79, Appl
C 166	10	100.0	534	4	US-09-489-039A-2483	Sequence 2483, Ap	C 239	10	100.0	664	2	US-08-835-099A-15	Sequence 15, Appl
C 167	10	100.0	537	3	US-08-149-101A-6	Sequence 6, Appli	C 240	10	100.0	664	3	US-09-157-349-15	Sequence 15, Appl
C 168	10	100.0	537	5	PCT-US94-12873-6	Sequence 6, Appli	C 241	10	100.0	669	4	US-09-016-434-118	Sequence 118, App
C 169	10	100.0	540	5	PCT-US93-06251-45	Sequence 45, Appl	C 242	10	100.0	690	4	US-09-621-976-3241	Sequence 3241, Ap
C 170	10	100.0	541	2	US-08-483-695-36	Sequence 36, Appl	C 243	10	100.0	693	4	US-09-252-991A-697	Sequence 697, App
C 171	10	100.0	541	2	US-08-483-695-37	Sequence 37, Appl	C 244	10	100.0	701	4	US-09-621-976-19006	Sequence 19006, A
C 172	10	100.0	541	2	US-08-483-695-37	Sequence 37, Appl	C 245	10	100.0	702	4	US-09-489-039A-2510	Sequence 2510, Ap
C 173	10	100.0	541	2	US-07-965-285-36	Sequence 36, Appl	C 246	10	100.0	702	4	US-09-894-844-125	Sequence 125, App

C 247	10	100.0	710	4	US-09-636-215-654	Sequence 654, App	320	10	100.0	856	2	US-09-057-762-23	Sequence 23, Appl
C 248	10	100.0	710	4	US-09-685-166A-654	Sequence 654, App	321	10	100.0	856	3	US-08-326-119A-23	Sequence 23, Appl
C 249	10	100.0	711	4	US-09-489-039A-2813	Sequence 2813, Ap	322	10	100.0	865	3	US-08-398-416-293	Sequence 293, App
C 250	10	100.0	714	4	US-09-489-039A-5928	Sequence 5928, Ap	323	10	100.0	867	4	US-09-216-393A-91	Sequence 91, Appl
C 251	10	100.0	714	4	US-09-489-039A-6344	Sequence 6344, Ap	324	10	100.0	873	4	US-09-489-039A-2153	Sequence 2153, Ap
C 252	10	100.0	719	4	US-09-620-312D-669	Sequence 669, App	325	10	100.0	873	4	US-09-489-039A-3606	Sequence 3606, Ap
C 253	10	100.0	720	4	US-09-107-532A-43	Sequence 43, Appl	326	10	100.0	874	4	US-09-023-655-931	Sequence 931, App
C 254	10	100.0	726	4	US-09-489-039A-624	Sequence 624, App	327	10	100.0	876	4	US-09-312-283C-360	Sequence 360, App
C 255	10	100.0	728	3	US-09-998-416-654	Sequence 654, App	328	10	100.0	879	2	US-08-737-526-3	Sequence 3, Appli
C 256	10	100.0	733	4	US-09-833-381-1367	Sequence 1367, Ap	329	10	100.0	879	3	US-09-098-580-3	Sequence 3, Appli
C 257	10	100.0	734	4	US-09-149-476-243	Sequence 243, App	330	10	100.0	882	4	US-09-252-991A-7768	Sequence 7768, Ap
C 258	10	100.0	739	4	US-09-976-594-612	Sequence 612, App	331	10	100.0	884	4	US-09-833-381-1649	Sequence 1649, Ap
C 259	10	100.0	743	4	US-09-976-594-1121	Sequence 1121, Ap	332	10	100.0	889	4	US-09-489-039A-218	Sequence 218, App
C 260	10	100.0	747	3	US-09-998-416-246	Sequence 246, App	333	10	100.0	893	3	US-08-784-582-55	Sequence 55, Appl
C 261	10	100.0	748	4	US-09-621-976-3239	Sequence 3239, Ap	334	10	100.0	896	4	US-09-579-664B-1	Sequence 1, Appli
C 262	10	100.0	750	4	US-09-952-572-1	Sequence 1, Appli	335	10	100.0	900	4	US-09-489-039A-4914	Sequence 4914, Ap
C 263	10	100.0	756	3	US-09-175-014-1	Sequence 1, Appli	336	10	100.0	903	4	US-09-252-991A-11221	Sequence 11221, A
C 264	10	100.0	756	4	US-09-134-000C-521	Sequence 521, App	337	10	100.0	906	4	US-09-489-039A-4793	Sequence 4793, Ap
C 265	10	100.0	757	3	US-08-741-411-8	Sequence 8, Appli	338	10	100.0	915	4	US-09-489-039A-1093	Sequence 1093, Ap
C 266	10	100.0	765	4	US-09-073-009-103	Sequence 103, App	339	10	100.0	920	4	US-09-620-312D-132	Sequence 132, App
C 267	10	100.0	766	4	US-09-073-010-103	Sequence 103, App	340	10	100.0	920	4	US-09-252-991A-13718	Sequence 13718, A
C 268	10	100.0	771	3	US-09-040-984-85	Sequence 85, Appl	341	10	100.0	932	1	US-08-081-072-15	Sequence 15, Appl
C 269	10	100.0	771	4	US-09-123-912-85	Sequence 85, Appl	342	10	100.0	932	1	US-08-449-093A-15	Sequence 15, Appl
C 270	10	100.0	771	4	US-09-643-597-85	Sequence 85, Appl	343	10	100.0	937	3	US-08-478-073-1	Sequence 1, Appli
C 271	10	100.0	771	4	US-09-480-884A-85	Sequence 85, Appl	344	10	100.0	942	4	US-09-252-991A-4156	Sequence 4156, Ap
C 272	10	100.0	771	4	US-09-542-615A-85	Sequence 85, Appl	345	10	100.0	951	3	US-09-328-352-4037	Sequence 4037, Ap
C 273	10	100.0	771	4	US-09-606-421B-85	Sequence 85, Appl	346	10	100.0	955	3	US-08-784-582-57	Sequence 57, Appl
C 274	10	100.0	771	4	US-09-252-991A-4440	Sequence 4440, Ap	347	10	100.0	955	3	US-08-784-582-60	Sequence 60, Appl
C 275	10	100.0	771	4	US-09-221-107-85	Sequence 85, Appl	348	10	100.0	955	3	US-09-641-638-18	Sequence 18, Appl
C 276	10	100.0	777	4	US-09-489-039A-2079	Sequence 2079, Ap	349	10	100.0	963	4	US-09-023-655-303	Sequence 303, App
C 277	10	100.0	785	4	US-10-033-189-2	Sequence 2, Appli	350	10	100.0	963	4	US-09-489-039A-3178	Sequence 3178, Ap
C 278	10	100.0	786	1	US-08-403-379A-2	Sequence 2, Appli	351	10	100.0	969	2	US-08-365-486A-27	Sequence 27, Appl
C 279	10	100.0	786	2	US-09-929-414-2	Sequence 2, Appli	352	10	100.0	969	3	US-08-880-342-27	Sequence 27, Appl
C 280	10	100.0	789	4	US-09-489-039A-1203	Sequence 1203, Ap	353	10	100.0	969	4	US-09-489-039A-6999	Sequence 6999, Ap
C 281	10	100.0	793	3	US-09-020-956-33	Sequence 33, Appl	354	10	100.0	976	3	US-09-126-109-1	Sequence 1, Appli
C 282	10	100.0	793	3	US-09-030-607-33	Sequence 33, Appl	355	10	100.0	977	1	US-08-017-522A-3	Sequence 1, Appli
C 283	10	100.0	793	4	US-09-439-313-33	Sequence 33, Appl	356	10	100.0	977	1	US-08-115-680-1	Sequence 1, Appli
C 284	10	100.0	793	4	US-09-352-616A-33	Sequence 33, Appl	357	10	100.0	977	1	US-07-941-372-1	Sequence 1, Appli
C 285	10	100.0	793	4	US-09-232-149A-33	Sequence 33, Appl	358	10	100.0	977	2	US-08-023-980B-2	Sequence 2, Appli
C 286	10	100.0	793	4	US-09-159-812-33	Sequence 33, Appl	359	10	100.0	977	2	US-08-486-953A-2	Sequence 2, Appli
C 287	10	100.0	793	4	US-09-636-215-33	Sequence 33, Appl	360	10	100.0	977	5	PCT-US93-08247-1	Sequence 1, Appli
C 288	10	100.0	793	4	US-09-685-166A-33	Sequence 33, Appl	361	10	100.0	978	4	US-09-489-039A-1050	Sequence 1050, Ap
C 289	10	100.0	793	4	US-09-115-453-33	Sequence 33, Appl	362	10	100.0	981	4	US-09-489-039A-5366	Sequence 5366, Ap
C 290	10	100.0	793	4	US-09-688-489-33	Sequence 33, Appl	363	10	100.0	986	4	US-09-252-991A-4451	Sequence 4451, Ap
C 291	10	100.0	795	3	US-08-713-556F-41	Sequence 41, Appl	364	10	100.0	997	4	US-09-565-501A-111	Sequence 111, App
C 292	10	100.0	795	4	US-09-016-434-49	Sequence 49, Appl	365	10	100.0	997	4	US-09-639-206A-111	Sequence 111, App
C 293	10	100.0	796	3	US-08-927-219-36	Sequence 36, Appl	366	10	100.0	997	4	US-09-716-129-21	Sequence 21, Appl
C 294	10	100.0	798	4	US-09-252-991A-15647	Sequence 15647, A	367	10	100.0	997	4	US-09-874-923-111	Sequence 111, App
C 295	10	100.0	802	3	US-09-984-295-2	Sequence 2, Appli	368	10	100.0	999	2	US-08-470-426B-33	Sequence 33, Appl
C 296	10	100.0	807	4	US-09-252-991A-2540	Sequence 2540, Ap	369	10	100.0	1001	3	US-08-705-771-6	Sequence 6, Appli
C 297	10	100.0	809	4	US-09-149-476-244	Sequence 244, App	370	10	100.0	1001	4	US-09-641-638-128	Sequence 128, App
C 298	10	100.0	813	2	US-08-927-230A-1	Sequence 1, Appli	371	10	100.0	1001	4	US-09-641-638-129	Sequence 129, App
C 299	10	100.0	813	3	US-09-151-052-1	Sequence 1, Appli	372	10	100.0	1001	4	US-09-641-638-130	Sequence 130, App
C 300	10	100.0	813	4	US-09-489-039A-4906	Sequence 4906, Ap	373	10	100.0	1001	4	US-09-641-638-447	Sequence 447, App
C 301	10	100.0	816	4	US-09-489-039A-2823	Sequence 2823, Ap	374	10	100.0	1001	4	US-09-641-638-593	Sequence 593, App
C 302	10	100.0	819	4	US-09-489-039A-6577	Sequence 6577, Ap	375	10	100.0	1001	4	US-09-671-317-235	Sequence 235, App
C 303	10	100.0	821	3	US-08-970-403-1	Sequence 1, Appli	376	10	100.0	1001	4	US-09-417-540-6	Sequence 6, Appli
C 304	10	100.0	821	4	US-10-033-189-3	Sequence 3, Appli	377	10	100.0	1005	4	US-09-547-435-7	Sequence 7, Appli
C 305	10	100.0	824	4	US-09-976-594-84	Sequence 84, Appl	378	10	100.0	1013	4	US-09-620-312D-604	Sequence 604, App
C 306	10	100.0	825	4	US-09-149-476-85	Sequence 85, Appl	379	10	100.0	1016	4	US-09-833-381-1400	Sequence 1400, Ap
C 307	10	100.0	828	4	US-09-489-039A-2934	Sequence 2934, Ap	380	10	100.0	1017	2	US-08-602-359A-30	Sequence 30, Appl
C 308	10	100.0	828	6	5227289-1	Patent No. 5227289	381	10	100.0	1017	4	US-09-540-236-1276	Sequence 1276, Ap
C 309	10	100.0	829	4	US-09-023-655-1348	Sequence 1348, Ap	382	10	100.0	1018	3	US-08-444-818-149	Sequence 149, App
C 310	10	100.0	831	4	US-09-484-970B-64	Sequence 64, Appl	383	10	100.0	1019	3	US-08-444-818-154	Sequence 154, App
C 311	10	100.0	849	4	US-09-107-532A-1899	Sequence 1899, Ap	384	10	100.0	1019	3	US-08-444-818-155	Sequence 155, App
C 312	10	100.0	852	1	US-08-485-618-52	Sequence 92, Appl	385	10	100.0	1020	4	US-09-247-155-143	Sequence 143, App
C 313	10	100.0	852	1	US-08-362-652-92	Sequence 92, Appl	386	10	100.0	1024	4	US-09-328-475C-73	Sequence 73, Appl
C 314	10	100.0	852	1	US-08-605-672-92	Sequence 92, Appl	387	10	100.0	1026	4	US-09-252-991A-12367	Sequence 12367, A
C 315	10	100.0	852	2	US-08-482-293A-92	Sequence 92, Appl	388	10	100.0	1029	4	US-09-489-039A-5827	Sequence 5827, Ap
C 316	10	100.0	852	2	US-08-943-363-92	Sequence 92, Appl	389	10	100.0	1029	4	US-09-489-039A-7100	Sequence 7100, Ap
C 317	10	100.0	852	3	US-09-193-043-92	Sequence 92, Appl	390	10	100.0	1032	4	US-09-489-039A-2197	Sequence 2197, Ap
C 318	10	100.0	852	4	US-09-688-307A-92	Sequence 92, Appl	391	10	100.0	1035	5	PCT-US93-06251-90	Sequence 90, Appl
C 319	10	100.0	852	4	US-09-350-259-92	Sequence 92, Appl	392	10	100.0	1045	3	US-09-313-300-9	Sequence 9, Appli





C 539	10	100.0	1318	1	US-08-485-618-100	Sequence 100, App	C 612	10	100.0	1470	4	US-09-547-435-3	Sequence 3, Appli
C 540	10	100.0	1318	1	US-08-605-672-100	Sequence 100, App	C 613	10	100.0	1473	4	US-09-620-312D-941	Sequence 941, App
C 541	10	100.0	1318	2	US-08-482-293A-100	Sequence 100, App	C 614	10	100.0	1476	4	US-09-585-174-99	Sequence 99, Appl
C 542	10	100.0	1318	2	US-08-943-363-100	Sequence 100, App	C 615	10	100.0	1476	4	US-09-489-039A-792	Sequence 792, App
C 543	10	100.0	1318	3	US-08-193-043-100	Sequence 100, App	C 616	10	100.0	1480	4	US-09-016-434-1454	Sequence 1454, Ap
C 544	10	100.0	1318	4	US-09-688-307A-100	Sequence 100, App	C 617	10	100.0	1488	4	US-09-252-991A-4168	Sequence 4168, Ap
C 545	10	100.0	1318	4	US-08-350-259-100	Sequence 100, App	C 618	10	100.0	1503	4	US-09-252-991A-4643	Sequence 4643, Ap
C 546	10	100.0	1321	4	US-08-833-381-947	Sequence 947, App	C 619	10	100.0	1508	4	US-09-149-476-260	Sequence 260, App
C 547	10	100.0	1322	4	US-08-973-005A-1	Sequence 1, Appli	C 620	10	100.0	1509	4	US-09-489-039A-6014	Sequence 6014, Ap
C 548	10	100.0	1323	1	US-07-735-065-3	Sequence 3, Appli	C 621	10	100.0	1515	4	US-09-489-039A-1318	Sequence 1318, Ap
C 549	10	100.0	1323	1	US-08-469-202-13	Sequence 13, Appli	C 622	10	100.0	1523	4	US-09-183-861-21	Sequence 21, Appli
C 550	10	100.0	1323	2	US-08-484-434C-13	Sequence 13, Appli	C 623	10	100.0	1523	4	US-09-022-765-21	Sequence 21, Appli
C 551	10	100.0	1323	4	US-09-384-361-13	Sequence 13, Appli	C 624	10	100.0	1523	4	US-09-551-974A-21	Sequence 21, Appli
C 552	10	100.0	1323	4	US-09-489-039A-3491	Sequence 3491, Ap	C 625	10	100.0	1523	4	US-09-565-501A-21	Sequence 21, Appli
C 553	10	100.0	1325	4	US-08-023-655-1343	Sequence 1343, Ap	C 626	10	100.0	1523	4	US-09-639-206A-21	Sequence 21, Appli
C 554	10	100.0	1328	2	US-08-766-439-39	Sequence 39, Appli	C 627	10	100.0	1523	4	US-09-874-923-21	Sequence 21, Appli
C 555	10	100.0	1328	2	US-08-766-439-40	Sequence 40, Appli	C 628	10	100.0	1527	4	US-09-489-039A-6104	Sequence 6104, Ap
C 556	10	100.0	1328	4	US-09-205-258-51	Sequence 51, Appli	C 629	10	100.0	1530	1	US-08-149-105-1	Sequence 1, Appli
C 557	10	100.0	1332	4	US-08-489-039A-995	Sequence 995, App	C 630	10	100.0	1530	1	US-08-317-847-1	Sequence 1, Appli
C 558	10	100.0	1335	4	US-09-740-028A-1	Sequence 1, Appli	C 631	10	100.0	1534	4	US-09-489-847-110	Sequence 110, App
C 559	10	100.0	1335	4	US-08-489-039A-810	Sequence 810, App	C 632	10	100.0	1539	2	US-08-470-426B-16	Sequence 16, Appl
C 560	10	100.0	1336	4	US-09-016-434-129	Sequence 129, App	C 633	10	100.0	1539	2	US-08-470-426B-17	Sequence 17, Appl
C 561	10	100.0	1344	4	US-09-252-991A-11510	Sequence 11510, A	C 634	10	100.0	1539	2	US-08-470-426B-17	Sequence 17, Appl
C 562	10	100.0	1347	4	US-09-016-434-1261	Sequence 1261, Ap	C 635	10	100.0	1539	4	US-09-489-039A-2329	Sequence 2329, Ap
C 563	10	100.0	1347	4	US-08-489-039A-5620	Sequence 5620, Ap	C 636	10	100.0	1539	5	PCT-US94-11328A-1	Sequence 1, Appli
C 564	10	100.0	1350	4	US-09-252-991A-11370	Sequence 11370, A	C 637	10	100.0	1546	1	US-08-292-688A-11	Sequence 11, Appl
C 565	10	100.0	1356	4	US-09-252-991A-630	Sequence 630, App	C 638	10	100.0	1554	4	US-09-620-312D-802	Sequence 802, App
C 566	10	100.0	1356	4	US-09-489-039A-5531	Sequence 5531, Ap	C 639	10	100.0	1557	4	US-09-252-991A-15073	Sequence 15073, A
C 567	10	100.0	1359	4	US-09-489-039A-49	Sequence 49, Appli	C 640	10	100.0	1556	4	US-09-620-312D-63	Sequence 63, Appl
C 568	10	100.0	1361	4	US-09-614-912-37	Sequence 37, Appli	C 641	10	100.0	1565	4	US-09-489-039A-6351	Sequence 6351, Ap
C 569	10	100.0	1366	3	US-08-444-818-72	Sequence 72, Appli	C 642	10	100.0	1578	4	US-09-489-039A-3846	Sequence 3846, Ap
C 570	10	100.0	1367	4	US-09-023-655-971	Sequence 971, App	C 643	10	100.0	1584	4	US-09-688-188B-4	Sequence 4, Appli
C 571	10	100.0	1368	4	US-09-252-991A-1071	Sequence 1071, Ap	C 644	10	100.0	1584	4	US-09-291-417D-4	Sequence 4, Appli
C 572	10	100.0	1368	4	US-09-489-039A-2793	Sequence 2793, Ap	C 645	10	100.0	1585	4	US-09-183-861-54	Sequence 54, Appl
C 573	10	100.0	1377	4	US-09-328-352-957	Sequence 957, App	C 646	10	100.0	1585	4	US-09-022-765-54	Sequence 54, Appl
C 574	10	100.0	1383	4	US-09-547-435-11	Sequence 11, Appli	C 647	10	100.0	1585	4	US-09-551-974A-54	Sequence 54, Appl
C 575	10	100.0	1389	4	US-09-489-039A-2337	Sequence 2337, Ap	C 648	10	100.0	1585	4	US-09-565-501A-54	Sequence 54, Appl
C 576	10	100.0	1391	2	US-08-865-336-2	Sequence 2, Appli	C 649	10	100.0	1585	4	US-09-639-206A-54	Sequence 54, Appl
C 577	10	100.0	1401	3	US-08-867-611-23	Sequence 23, Appli	C 650	10	100.0	1585	4	US-09-874-923-54	Sequence 54, Appl
C 578	10	100.0	1401	3	US-08-650-359-23	Sequence 23, Appli	C 651	10	100.0	1590	4	US-09-351-150A-2	Sequence 2, Appli
C 579	10	100.0	1401	5	PCT-US92-06965A-28	Sequence 28, Appli	C 652	10	100.0	1594	2	US-08-933-750C-61	Sequence 61, Appl
C 580	10	100.0	1407	4	US-09-252-991A-637	Sequence 637, App	C 653	10	100.0	1594	3	US-09-234-613-61	Sequence 61, Appl
C 581	10	100.0	1408	4	US-09-566-921-59	Sequence 59, Appli	C 654	10	100.0	1594	4	US-09-976-594-710	Sequence 710, App
C 582	10	100.0	1410	3	US-09-255-368-1	Sequence 1, Appli	C 655	10	100.0	1601	3	US-08-735-491-1	Sequence 1, Appli
C 583	10	100.0	1410	4	US-09-252-991A-11298	Sequence 11298, A	C 656	10	100.0	1608	4	US-10-020-079-15	Sequence 15, Appl
C 584	10	100.0	1413	4	US-09-252-991A-12131	Sequence 12131, A	C 657	10	100.0	1608	4	US-09-489-039A-549	Sequence 549, App
C 585	10	100.0	1419	1	US-08-103-739B-1	Sequence 1, Appli	C 658	10	100.0	1611	4	US-09-534-743-1	Sequence 1, Appli
C 586	10	100.0	1419	1	US-08-474-404-1	Sequence 1, Appli	C 659	10	100.0	1611	4	US-09-534-743-3	Sequence 3, Appli
C 587	10	100.0	1419	2	US-08-485-845-1	Sequence 1, Appli	C 660	10	100.0	1616	1	US-08-292-688A-12	Sequence 12, Appli
C 588	10	100.0	1419	2	US-08-482-714-1	Sequence 1, Appli	C 661	10	100.0	1621	1	US-08-292-688A-10	Sequence 10, Appl
C 589	10	100.0	1419	3	US-08-276-531-1	Sequence 1, Appli	C 662	10	100.0	1626	3	US-08-959-381A-4	Sequence 4, Appli
C 590	10	100.0	1419	3	US-08-211-416-1	Sequence 1, Appli	C 663	10	100.0	1626	3	US-08-959-381A-4	Sequence 4, Appli
C 591	10	100.0	1419	3	US-09-059-958-1	Sequence 1, Appli	C 664	10	100.0	1632	4	US-09-489-039A-6010	Sequence 6010, Ap
C 592	10	100.0	1425	4	US-09-489-039A-6111	Sequence 6111, Ap	C 665	10	100.0	1637	2	US-08-366-316-10	Sequence 10, Appl
C 593	10	100.0	1440	4	US-09-540-236-372	Sequence 372, App	C 666	10	100.0	1637	3	US-08-852-824-3	Sequence 3, Appli
C 594	10	100.0	1441	4	US-09-547-435-13	Sequence 13, Appli	C 667	10	100.0	1641	4	US-09-489-039A-2402	Sequence 2402, Ap
C 595	10	100.0	1443	3	US-08-959-381A-3	Sequence 3, Appli	C 668	10	100.0	1645	4	US-09-620-312D-807	Sequence 807, App
C 596	10	100.0	1445	4	US-08-814-951A-1	Sequence 1, Appli	C 669	10	100.0	1647	2	US-10-020-079-13	Sequence 13, Appl
C 597	10	100.0	1446	4	US-09-170-496D-81	Sequence 81, Appli	C 670	10	100.0	1649	2	US-08-692-787-8	Sequence 8, Appli
C 598	10	100.0	1446	4	US-09-170-496D-207	Sequence 207, App	C 671	10	100.0	1649	3	US-08-845-566-2	Sequence 2, Appli
C 599	10	100.0	1446	4	US-09-489-039A-417	Sequence 417, App	C 672	10	100.0	1649	3	US-09-097-199-8	Sequence 8, Appli
C 600	10	100.0	1446	4	US-09-489-039A-1977	Sequence 1977, Ap	C 673	10	100.0	1649	4	US-09-023-655-1268	Sequence 1268, Ap
C 601	10	100.0	1449	4	US-09-489-039A-924	Sequence 924, App	C 674	10	100.0	1650	2	US-08-436-771-10	Sequence 10, Appl
C 602	10	100.0	1458	4	US-09-489-039A-958	Sequence 958, App	C 675	10	100.0	1650	2	US-08-434-998-10	Sequence 10, Appl
C 603	10	100.0	1464	1	US-07-735-065-1	Sequence 1, Appli	C 676	10	100.0	1650	2	US-08-487-797-10	Sequence 10, Appl
C 604	10	100.0	1464	1	US-08-469-202-11	Sequence 11, Appli	C 677	10	100.0	1650	4	US-08-367-805-15	Sequence 15, Appl
C 605	10	100.0	1464	1	US-08-292-688A-9	Sequence 9, Appli	C 678	10	100.0	1650	4	US-09-016-434-1473	Sequence 1473, Ap
C 606	10	100.0	1464	2	US-08-484-434C-11	Sequence 11, Appli	C 679	10	100.0	1650	4	US-09-307-794A-254	Sequence 254, App
C 607	10	100.0	1464	4	US-09-384-361-11	Sequence 11, Appli	C 680	10	100.0	1650	4	US-09-905-125A-254	Sequence 254, App
C 608	10	100.0	1467	4	US-09-212-609B-21	Sequence 21, Appli	C 681	10	100.0	1650	5	US-09-302-775A-254	Sequence 254, App
C 609	10	100.0	1467	4	US-09-444-728-1	Sequence 1, Appli	C 682	10	100.0	1650	5	PCT-US95-02058-10	Sequence 10, Appli
C 610	10	100.0	1470	4	US-09-212-609B-16	Sequence 16, Appli	C 683	10	100.0	1660	4	US-09-297-468-1	Sequence 1, Appli
C 611	10	100.0	1470	4	US-09-986-536-1	Sequence 1, Appli	C 684	10	100.0	1674	4	US-09-489-847-18	Sequence 18, Appli

c 685	10	100.0	1676	4	US-09-023-655-169	Sequence 169, App	c 758	10	100.0	1809	4	US-09-620-312D-1082	Sequence 1082, Ap
c 686	10	100.0	1677	4	US-09-489-039A-2140	Sequence 2140, Ap	759	10	100.0	1813	4	US-09-976-594-558	Sequence 558, App
c 687	10	100.0	1678	4	US-09-023-655-840	Sequence 840, App	760	10	100.0	1814	4	US-08-483-151-1	Sequence 1, Appli
c 688	10	100.0	1680	1	US-08-140-729A-2	Sequence 2, Appli	c 761	10	100.0	1814	2	US-08-483-151-1	Sequence 1, Appli
c 689	10	100.0	1680	1	US-08-546-666-2	Sequence 2, Appli	762	10	100.0	1814	5	PCT-US96-06427-1	Sequence 1, Appli
c 690	10	100.0	1680	2	US-08-516-745-2	Sequence 2, Appli	c 763	10	100.0	1814	5	PCT-US96-06427-1	Sequence 1, Appli
c 691	10	100.0	1680	2	US-09-042-929-2	Sequence 2, Appli	c 764	10	100.0	1818	4	US-09-148-545-87	Sequence 87, Appl
c 692	10	100.0	1680	2	US-08-546-661-2	Sequence 2, Appli	765	10	100.0	1824	4	US-09-489-039A-4969	Sequence 4969, Ap
c 693	10	100.0	1680	2	US-09-042-960-2	Sequence 2, Appli	c 766	10	100.0	1836	4	US-09-252-991A-6808	Sequence 6808, Ap
c 694	10	100.0	1680	2	US-09-198-650-2	Sequence 2, Appli	c 767	10	100.0	1836	4	US-09-489-039A-2969	Sequence 2969, Ap
c 695	10	100.0	1680	3	US-09-042-913-2	Sequence 2, Appli	c 768	10	100.0	1841	4	US-09-620-312D-636	Sequence 636, App
c 696	10	100.0	1680	3	US-09-042-937-2	Sequence 2, Appli	c 769	10	100.0	1848	4	US-09-547-435-9	Sequence 9, Appli
c 697	10	100.0	1680	4	US-09-042-709A-2	Sequence 2, Appli	c 770	10	100.0	1850	4	US-09-566-921-129	Sequence 129, App
c 698	10	100.0	1680	4	US-09-227-614-2	Sequence 2, Appli	c 771	10	100.0	1854	4	US-09-252-991A-6901	Sequence 6901, Ap
c 699	10	100.0	1680	4	US-09-489-039A-2148	Sequence 2148, Ap	c 772	10	100.0	1858	3	US-09-347-819-1	Sequence 1, Appli
700	10	100.0	1681	2	US-08-581-527-4	Sequence 4, Appli	c 773	10	100.0	1863	2	US-08-470-426B-13	Sequence 13, Appl
701	10	100.0	1681	4	US-09-262-213A-4	Sequence 4, Appli	c 774	10	100.0	1863	2	US-08-470-426B-14	Sequence 14, Appl
702	10	100.0	1681	5	PCT-US94-07754-4	Sequence 4, Appli	c 775	10	100.0	1863	2	US-08-470-426B-14	Sequence 14, Appl
703	10	100.0	1689	1	US-08-442-884-2	Sequence 2, Appli	c 776	10	100.0	1866	4	US-09-489-039A-3207	Sequence 3207, Ap
704	10	100.0	1689	4	US-09-016-434-1274	Sequence 1274, Ap	c 777	10	100.0	1875	4	US-09-620-312D-4555	Sequence 455, App
705	10	100.0	1693	1	US-08-292-688A-13	Sequence 13, Appl	c 778	10	100.0	1878	3	US-08-996-139-14	Sequence 14, Appl
706	10	100.0	1693	1	US-08-292-688A-14	Sequence 14, Appl	c 779	10	100.0	1878	3	US-08-995-659-14	Sequence 14, Appl
707	10	100.0	1713	3	US-09-181-336-12	Sequence 12, Appl	c 780	10	100.0	1878	3	US-09-215-649A-14	Sequence 14, Appl
708	10	100.0	1721	2	US-08-922-170B-9	Sequence 9, Appli	c 781	10	100.0	1878	4	US-09-577-800-14	Sequence 14, Appl
709	10	100.0	1721	2	US-08-922-170B-11	Sequence 11, Appl	c 782	10	100.0	1878	4	US-09-577-800-14	Sequence 14, Appl
710	10	100.0	1721	3	US-09-071-739B-1	Sequence 1, Appli	c 783	10	100.0	1878	4	US-09-466-496-14	Sequence 14, Appl
711	10	100.0	1721	3	US-09-071-739B-3	Sequence 3, Appli	c 784	10	100.0	1878	4	US-09-871-856-14	Sequence 14, Appl
712	10	100.0	1721	4	US-09-260-038B-1	Sequence 1, Appli	c 785	10	100.0	1878	4	US-09-871-291-14	Sequence 14, Appl
713	10	100.0	1721	4	US-09-260-038B-3	Sequence 3, Appli	c 786	10	100.0	1878	4	US-09-877-650-14	Sequence 14, Appl
714	10	100.0	1721	4	US-09-635-923-1	Sequence 1, Appli	c 787	10	100.0	1880	4	US-09-252-991A-942	Sequence 942, App
715	10	100.0	1721	4	US-09-635-923-3	Sequence 3, Appli	c 788	10	100.0	1893	4	US-09-252-991A-3131	Sequence 3131, Ap
716	10	100.0	1721	4	US-09-487-716A-1	Sequence 1, Appli	c 789	10	100.0	1893	4	US-09-269-939A-5	Sequence 5, Appli
717	10	100.0	1721	4	US-09-487-716A-3	Sequence 3, Appli	c 790	10	100.0	1894	3	US-08-749-816-1	Sequence 1, Appli
718	10	100.0	1721	4	US-09-322-977-1	Sequence 3, Appli	c 791	10	100.0	1894	4	US-09-144-914-1	Sequence 1, Appli
719	10	100.0	1721	4	US-09-322-977-3	Sequence 3, Appli	c 792	10	100.0	1899	4	US-09-435-739-13	Sequence 13, Appl
720	10	100.0	1721	4	US-09-435-739-9	Sequence 9, Appli	c 793	10	100.0	1899	4	US-09-435-739-15	Sequence 15, Appl
721	10	100.0	1721	4	US-09-435-739-11	Sequence 11, Appl	c 794	10	100.0	1908	4	US-09-252-991A-6851	Sequence 6851, Ap
722	10	100.0	1723	3	US-09-181-336-14	Sequence 14, Appl	c 795	10	100.0	1910	2	US-09-009-438-1	Sequence 1, Appli
723	10	100.0	1724	4	US-09-620-312D-650	Sequence 650, App	c 796	10	100.0	1910	3	US-09-207-493-1	Sequence 1, Appli
724	10	100.0	1728	4	US-09-252-991A-616	Sequence 616, App	c 797	10	100.0	1916	4	US-09-582-441-2	Sequence 2, Appli
725	10	100.0	1730	4	US-09-489-847-48	Sequence 48, Appl	c 798	10	100.0	1923	4	US-09-252-991A-11033	Sequence 11033, A
726	10	100.0	1732	4	US-09-430-564-1	Sequence 1, Appli	c 799	10	100.0	1923	4	US-09-252-991A-1950	Sequence 1950, A
c 727	10	100.0	1735	4	US-09-404-641-84	Sequence 84, Appl	c 800	10	100.0	1925	4	US-09-148-545-86	Sequence 86, Appl
c 728	10	100.0	1739	4	US-09-148-545-11	Sequence 11, Appl	c 801	10	100.0	1926	4	US-09-252-991A-15678	Sequence 15678, A
c 729	10	100.0	1741	4	US-09-023-655-1353	Sequence 1353, Ap	c 802	10	100.0	1926	4	US-09-148-545-21	Sequence 21, Appl
c 730	10	100.0	1749	4	US-09-489-039A-805	Sequence 805, App	c 803	10	100.0	1929	4	US-09-489-039A-3772	Sequence 3772, Ap
c 731	10	100.0	1749	4	US-09-489-039A-3615	Sequence 3615, Ap	c 804	10	100.0	1935	4	US-09-423-890-5	Sequence 5, Appli
c 732	10	100.0	1753	4	US-09-870-956-53	Sequence 53, Appl	c 805	10	100.0	1935	4	US-09-495-050A-190	Sequence 190, App
c 733	10	100.0	1758	4	US-09-489-039A-6697	Sequence 6697, Ap	c 806	10	100.0	1938	4	US-09-547-435-25	Sequence 25, Appl
c 734	10	100.0	1767	1	US-07-668-648-5	Sequence 5, Appli	c 807	10	100.0	1940	3	US-09-718-032-1	Sequence 1, Appli
c 735	10	100.0	1767	2	US-08-429-998-5	Sequence 5, Appli	c 808	10	100.0	1941	3	US-09-082-737-1	Sequence 1, Appli
c 736	10	100.0	1767	2	US-08-431-333-5	Sequence 5, Appli	c 809	10	100.0	1944	4	US-09-252-991A-889	Sequence 889, App
c 737	10	100.0	1767	4	US-09-620-312D-247	Sequence 247, App	c 810	10	100.0	1947	4	US-10-020-079-11	Sequence 11, Appl
c 738	10	100.0	1767	5	PCT-US91-02321-5	Sequence 5, Appli	c 811	10	100.0	1948	3	US-09-360-197-11	Sequence 11, Appl
c 739	10	100.0	1771	2	US-09-166-203-48	Sequence 48, Appl	c 812	10	100.0	1953	4	US-09-489-039A-507	Sequence 507, App
c 740	10	100.0	1771	3	US-09-377-309-48	Sequence 48, Appl	c 813	10	100.0	1960	2	US-08-463-081B-9	Sequence 9, Appli
c 741	10	100.0	1774	1	US-08-377-292-3	Sequence 3, Appli	c 814	10	100.0	1960	2	US-08-461-379A-9	Sequence 9, Appli
c 742	10	100.0	1777	4	US-09-461-325-40	Sequence 40, Appl	c 815	10	100.0	1960	2	US-08-462-390B-9	Sequence 9, Appli
c 743	10	100.0	1777	4	US-10-012-542-40	Sequence 40, Appl	c 816	10	100.0	1960	3	US-08-463-074B-9	Sequence 9, Appli
744	10	100.0	1784	1	US-08-554-612C-13	Sequence 13, Appl	c 817	10	100.0	1960	3	US-08-465-585C-9	Sequence 9, Appli
c 745	10	100.0	1785	4	US-09-489-039A-3198	Sequence 3198, Ap	c 818	10	100.0	1960	3	US-08-652-446-9	Sequence 9, Appli
c 746	10	100.0	1785	4	US-09-489-039A-3451	Sequence 3451, Ap	c 819	10	100.0	1965	4	US-09-280-116-133	Sequence 133, App
c 747	10	100.0	1799	4	US-09-732-234-5	Sequence 5, Appli	c 820	10	100.0	1965	4	US-09-220-132-21	Sequence 21, Appl
748	10	100.0	1799	4	US-09-784-859-5	Sequence 5, Appli	c 821	10	100.0	1965	4	US-10-020-079-9	Sequence 9, Appli
749	10	100.0	1800	2	US-08-484-815-11	Sequence 11, Appl	c 822	10	100.0	1974	4	US-09-543-681A-2937	Sequence 2937, Ap
c 750	10	100.0	1800	2	US-08-733-825-1	Sequence 1, Appli	c 823	10	100.0	1977	4	US-09-833-381-1616	Sequence 1616, Ap
751	10	100.0	1800	3	US-08-888-949-11	Sequence 11, Appl	c 824	10	100.0	1986	4	US-09-252-991A-12512	Sequence 12512, A
752	10	100.0	1800	3	US-08-888-950-11	Sequence 11, Appl	c 825	10	100.0	1989	3	US-08-824-057-4	Sequence 4, Appli
753	10	100.0	1800	3	US-09-262-758-11	Sequence 11, Appl	c 826	10	100.0	1989	4	US-09-415-582-4	Sequence 4, Appli
754	10	100.0	1800	4	US-09-885-876-11	Sequence 11, Appl	c 827	10	100.0	1989	4	US-09-693-596-3	Sequence 3, Appli
755	10	100.0	1800	4	US-09-885-901-11	Sequence 11, Appl	c 828	10	100.0	1990	4	US-09-016-434-1056	Sequence 1056, Ap
756	10	100.0	1800	4	US-09-731-393-11	Sequence 11, Appl	c 829	10	100.0	1998	4	US-09-816-494-3	Sequence 3, Appli
757	10	100.0	1800	5	PCT-US95-10284-11	Sequence 11, Appl	c 830	10	100.0	2001	4	US-09-688-188B-98	Sequence 98, Appl

831	10	100.0	2001	4	US-09-291-417D-98	Sequence 98, Appl	904	10	100.0	2290	4	US-09-905-125A-72	Sequence 72, Appl
832	10	100.0	2007	4	US-09-270-391-15	Sequence 15, Appl	905	10	100.0	2290	4	US-09-902-775A-72	Sequence 72, Appl
833	10	100.0	2012	4	US-08-026-143B-2	Sequence 2, Appl	C 906	10	100.0	2295	4	US-10-020-079-5	Sequence 2, Appl
834	10	100.0	2012	5	PCT-US92-10621-2	Sequence 2, Appl	C 907	10	100.0	2296	2	US-08-899-336-2	Sequence 2, Appl
835	10	100.0	2012	5	PCT-US94-02233-2	Sequence 2, Appl	C 908	10	100.0	2316	4	US-09-547-435-27	Sequence 27, Appl
C 836	10	100.0	2031	2	US-08-448-561-2	Sequence 2, Appl	C 909	10	100.0	2324	4	US-09-724-864-21	Sequence 21, Appl
837	10	100.0	2034	4	US-09-489-847-83	Sequence 83, Appl	C 910	10	100.0	2327	4	US-09-149-476-107	Sequence 107, App
C 838	10	100.0	2036	4	US-09-023-655-10	Sequence 10, Appl	C 911	10	100.0	2331	4	US-10-020-079-23	Sequence 23, Appl
C 839	10	100.0	2038	4	US-09-620-312D-597	Sequence 597, App	912	10	100.0	2333	1	US-08-392-678-33	Sequence 33, Appl
840	10	100.0	2040	4	US-09-269-939A-3	Sequence 3, Appl	913	10	100.0	2334	1	US-08-457-304A-33	Sequence 33, Appl
841	10	100.0	2050	4	US-09-688-188B-28	Sequence 28, Appl	914	10	100.0	2334	1	US-08-456-701A-33	Sequence 33, Appl
842	10	100.0	2050	4	US-09-291-417D-28	Sequence 28, Appl	915	10	100.0	2334	4	US-08-684-932A-33	Sequence 33, Appl
C 843	10	100.0	2052	4	US-09-252-991A-15573	Sequence 15573, A	916	10	100.0	2334	4	US-09-023-655-996	Sequence 996, App
C 844	10	100.0	2055	4	US-09-489-039A-6325	Sequence 6325, Ap	C 917	10	100.0	2348	4	US-09-388-743-5	Sequence 5, Appl
845	10	100.0	2061	4	US-09-653-839-7	Sequence 7, Appl	C 918	10	100.0	2354	4	US-09-221-017B-275	Sequence 275, App
846	10	100.0	2074	4	US-08-630-915A-19	Sequence 19, Appl	C 919	10	100.0	2358	4	US-09-023-655-200	Sequence 200, App
847	10	100.0	2078	4	US-09-212-609B-14	Sequence 14, Appl	C 920	10	100.0	2362	4	US-09-907-794A-194	Sequence 194, App
848	10	100.0	2079	4	US-09-540-236-830	Sequence 830, App	C 921	10	100.0	2362	4	US-09-905-125A-194	Sequence 194, App
849	10	100.0	2085	4	US-09-252-991A-12962	Sequence 12962, A	C 922	10	100.0	2362	4	US-09-902-775A-194	Sequence 194, App
C 850	10	100.0	2088	4	US-09-023-655-340	Sequence 340, App	923	10	100.0	2363	4	US-09-721-383-1	Sequence 1, Appl
851	10	100.0	2097	4	US-09-269-939A-1	Sequence 1, Appl	924	10	100.0	2363	4	US-09-721-137-1	Sequence 1, Appl
852	10	100.0	2099	4	US-08-622-503-2	Sequence 2, Appl	925	10	100.0	2363	4	US-09-721-251-1	Sequence 1, Appl
853	10	100.0	2103	4	US-09-489-039A-6292	Sequence 6292, Ap	926	10	100.0	2364	4	US-09-390-234-23	Sequence 23, Appl
C 854	10	100.0	2103	4	US-09-976-594-393	Sequence 393, App	927	10	100.0	2364	4	US-09-603-311-23	Sequence 23, Appl
855	10	100.0	2109	4	US-09-653-839-5	Sequence 5, Appl	928	10	100.0	2364	4	US-09-489-039A-457	Sequence 457, App
C 856	10	100.0	2110	4	US-09-688-188B-96	Sequence 96, Appl	929	10	100.0	2367	4	US-09-489-039A-5660	Sequence 5660, Ap
C 857	10	100.0	2110	4	US-09-291-417D-96	Sequence 96, Appl	C 930	10	100.0	2370	4	US-10-020-079-21	Sequence 21, Appl
C 858	10	100.0	2115	4	US-08-252-991A-3794	Sequence 3794, Ap	C 931	10	100.0	2380	4	US-09-747-259-13	Sequence 13, Appl
859	10	100.0	2116	3	US-08-191-160-21	Sequence 21, Appl	C 932	10	100.0	2398	4	US-09-620-312B-1056	Sequence 1056, Ap
C 860	10	100.0	2116	3	US-08-191-160-21	Sequence 21, Appl	933	10	100.0	2416	4	US-09-016-434-1264	Sequence 1264, Ap
861	10	100.0	2136	4	US-09-252-991A-11628	Sequence 11628, A	C 934	10	100.0	2421	4	US-09-187-330-4	Sequence 4, Appl
C 862	10	100.0	2137	4	US-08-991-862-1	Sequence 1, Appl	935	10	100.0	2428	3	US-09-009-913-6	Sequence 6, Appl
C 863	10	100.0	2137	4	US-09-813-156-1	Sequence 1, Appl	936	10	100.0	2433	4	US-09-489-039A-2577	Sequence 2577, Ap
864	10	100.0	2144	3	US-08-834-306-15	Sequence 15, Appl	C 937	10	100.0	2437	4	Sequence 1055, Ap	Sequence 1055, Ap
865	10	100.0	2144	3	US-08-993-674A-15	Sequence 15, Appl	938	10	100.0	2437	4	US-09-833-381-1478	Sequence 1478, Ap
866	10	100.0	2144	3	US-09-256-976-15	Sequence 15, Appl	939	10	100.0	2437	4	US-09-833-381-1479	Sequence 1479, Ap
C 867	10	100.0	2154	1	US-08-383-750-1	Sequence 1, Appl	940	10	100.0	2478	1	US-08-481-626-1	Sequence 1, Appl
C 868	10	100.0	2154	1	US-08-383-751A-1	Sequence 1, Appl	941	10	100.0	2480	4	US-09-064-199-15	Sequence 15, Appl
C 869	10	100.0	2154	3	US-08-352-678-1	Sequence 1, Appl	C 942	10	100.0	2487	4	US-09-187-330-54	Sequence 54, Appl
C 870	10	100.0	2154	3	US-09-536-954-1	Sequence 1, Appl	C 943	10	100.0	2493	4	US-09-252-991A-12390	Sequence 12390, A
C 871	10	100.0	2154	4	US-09-016-434-1214	Sequence 1214, Ap	944	10	100.0	2496	1	US-08-073-384C-2	Sequence 2, Appl
C 872	10	100.0	2154	4	US-09-023-655-1094	Sequence 1094, Ap	945	10	100.0	2496	1	US-08-254-359A-2	Sequence 2, Appl
C 873	10	100.0	2154	5	PCT-US93-09636-1	Sequence 1, Appl	946	10	100.0	2496	1	US-08-483-043-2	Sequence 2, Appl
C 874	10	100.0	2160	1	US-08-153-848-14	Sequence 14, Appl	947	10	100.0	2496	1	US-08-481-238-2	Sequence 2, Appl
C 875	10	100.0	2160	3	US-09-298-843A-14	Sequence 14, Appl	948	10	100.0	2496	2	US-08-471-066B-2	Sequence 2, Appl
C 876	10	100.0	2160	4	US-09-088-337B-14	Sequence 14, Appl	949	10	100.0	2496	2	US-08-484-956-2	Sequence 2, Appl
C 877	10	100.0	2160	5	PCT-US93-11153-14	Sequence 14, Appl	950	10	100.0	2496	2	US-08-757-653-2	Sequence 2, Appl
878	10	100.0	2167	2	US-09-067-351-5	Sequence 5, Appl	951	10	100.0	2496	2	US-08-599-491-2	Sequence 2, Appl
879	10	100.0	2167	3	US-09-360-490-5	Sequence 5, Appl	952	10	100.0	2496	2	US-08-756-386-2	Sequence 2, Appl
880	10	100.0	2172	4	US-09-653-839-3	Sequence 3, Appl	953	10	100.0	2496	2	US-08-823-516-2	Sequence 2, Appl
C 881	10	100.0	2181	4	US-09-187-330-56	Sequence 56, Appl	954	10	100.0	2496	3	US-08-682-853A-2	Sequence 2, Appl
C 882	10	100.0	2187	4	US-09-489-039A-6238	Sequence 6238, Ap	955	10	100.0	2496	3	US-08-759-038-2	Sequence 2, Appl
883	10	100.0	2194	2	US-08-948-569A-9	Sequence 9, Appl	956	10	100.0	2496	3	US-08-758-314-2	Sequence 2, Appl
884	10	100.0	2194	2	US-09-188-469-9	Sequence 9, Appl	957	10	100.0	2496	3	US-09-350-309-2	Sequence 2, Appl
885	10	100.0	2194	3	US-09-397-238A-9	Sequence 9, Appl	958	10	100.0	2496	4	US-08-520-946-2	Sequence 2, Appl
886	10	100.0	2194	4	US-09-023-655-668	Sequence 668, App	959	10	100.0	2496	4	US-09-684-938-2	Sequence 2, Appl
887	10	100.0	2208	5	PCT-US95-08493-1	Sequence 1, Appl	960	10	100.0	2496	4	US-09-308-825A-2	Sequence 2, Appl
888	10	100.0	2217	1	US-08-712-241-4	Sequence 4, Appl	961	10	100.0	2496	4	US-09-758-282B-2	Sequence 2, Appl
889	10	100.0	2220	4	US-09-653-839-1	Sequence 1, Appl	962	10	100.0	2496	4	US-09-555-788A-2	Sequence 2, Appl
890	10	100.0	2229	4	US-09-252-991A-7718	Sequence 7718, Ap	C 963	10	100.0	2497	4	US-09-023-655-1155	Sequence 1155, Ap
C 891	10	100.0	2232	4	US-09-212-609B-19	Sequence 19, Appl	964	10	100.0	2498	3	US-09-009-913-10	Sequence 10, Appl
C 892	10	100.0	2236	4	US-09-280-116-24	Sequence 24, Appl	C 965	10	100.0	2502	4	US-09-489-039A-1765	Sequence 1765, Ap
C 893	10	100.0	2236	4	US-09-547-435-5	Sequence 5, Appl	966	10	100.0	2508	1	US-07-959-943-10	Sequence 10, Appl
C 894	10	100.0	2256	4	US-10-020-079-7	Sequence 7, Appl	C 967	10	100.0	2517	4	US-10-020-079-39	Sequence 39, Appl
C 895	10	100.0	2270	4	US-09-731-030A-10	Sequence 10, Appl	968	10	100.0	2520	4	US-09-489-039A-6081	Sequence 6081, Ap
C 896	10	100.0	2271	4	US-09-690-454-14	Sequence 14, Appl	C 969	10	100.0	2539	4	US-09-620-312D-454	Sequence 454, App
C 897	10	100.0	2280	3	US-09-009-913-8	Sequence 8, Appl	C 970	10	100.0	2556	4	US-09-817-310-1	Sequence 1, Appl
C 898	10	100.0	2286	4	US-09-328-352-1524	Sequence 1524, Ap	C 971	10	100.0	2556	4	US-10-020-079-37	Sequence 37, Appl
C 899	10	100.0	2288	4	US-09-461-325-53	Sequence 53, Appl	C 972	10	100.0	2569	1	US-08-631-607-1	Sequence 1, Appl
C 900	10	100.0	2288	4	US-10-012-542-53	Sequence 53, Appl	C 973	10	100.0	2569	4	US-08-098-358B-1	Sequence 1, Appl
C 901	10	100.0	2288	4	US-09-489-039A-2837	Sequence 2837, Ap	C 974	10	100.0	2569	6	5221620-1	Parent No. 5221620
C 902	10	100.0	2289	4	US-09-489-039A-2837	Sequence 2837, Ap	975	10	100.0	2575	3	US-09-077-354B-1	Sequence 1, Appl
903	10	100.0	2290	4	US-09-907-794A-72	Sequence 72, Appl	976	10	100.0	2580	5	PCT-US95-08493-18	Sequence 18, Appl

C 977	10	100.0	2581	4	US-09-690-454-43	Sequence 43, Appl	c1050	10	100.0	2856	4	US-10-020-079-35	Sequence 35, Appl
C 978	10	100.0	2589	4	US-09-874-923-116	Sequence 116, App	1051	10	100.0	2859	4	US-09-099-041A-9	Sequence 9, Appl
C 979	10	100.0	2592	4	US-10-020-079-31	Sequence 31, Appl	1052	10	100.0	2859	4	US-09-345-281-9	Sequence 9, Appl
C 980	10	100.0	2595	4	US-10-020-079-3	Sequence 3, Appl	1053	10	100.0	2859	4	US-09-207-359B-9	Sequence 9, Appl
C 981	10	100.0	2604	4	US-09-547-435-23	Sequence 23, Appl	1054	10	100.0	2859	4	US-09-340-620A-9	Sequence 9, Appl
C 982	10	100.0	2604	5	PCT-US95-08493-20	Sequence 20, Appl	1055	10	100.0	2859	4	US-09-865-364-9	Sequence 9, Appl
C 983	10	100.0	2607	2	US-08-907-166-1	Sequence 1, Appl	c1056	10	100.0	2865	2	US-08-749-169A-2	Sequence 2, Appl
C 984	10	100.0	2607	4	US-09-391-340-1	Sequence 1, Appl	c1057	10	100.0	2865	2	US-09-130-032A-2	Sequence 2, Appl
C 985	10	100.0	2610	1	US-08-374-834-17	Sequence 17, Appl	1058	10	100.0	2865	1	US-09-854-856-21	Sequence 21, Appl
C 986	10	100.0	2610	1	US-08-644-271-28	Sequence 28, Appl	1059	10	100.0	2869	1	US-08-374-834-2	Sequence 2, Appl
C 987	10	100.0	2610	4	US-09-077-955-32	Sequence 32, Appl	1060	10	100.0	2869	1	US-08-644-271-2	Sequence 2, Appl
C 988	10	100.0	2613	4	US-10-020-079-1	Sequence 1, Appl	1061	10	100.0	2869	4	US-09-077-955-2	Sequence 2, Appl
C 989	10	100.0	2630	4	US-09-962-665-13	Sequence 13, Appl	c1062	10	100.0	2874	4	US-10-020-079-33	Sequence 33, Appl
C 990	10	100.0	2630	4	US-09-963-333-13	Sequence 13, Appl	1063	10	100.0	2874	4	US-09-489-039A-4062	Sequence 4062, Ap
C 991	10	100.0	2631	4	US-10-020-079-29	Sequence 29, Appl	1064	10	100.0	2885	4	US-09-016-434-1143	Sequence 1143, Ap
C 992	10	100.0	2636	1	US-08-554-612C-12	Sequence 12, Appl	c1065	10	100.0	2886	1	US-08-073-383-3	Sequence 3, Appl
C 993	10	100.0	2637	4	US-09-566-921-58	Sequence 58, Appl	c1066	10	100.0	2886	3	US-08-328-239A-2	Sequence 2, Appl
C 994	10	100.0	2638	4	US-09-016-434-1090	Sequence 1090, Ap	c1067	10	100.0	2886	5	PCT-US94-06365-3	Sequence 3, Appl
C 995	10	100.0	2668	4	US-09-370-838-156	Sequence 156, App	c1068	10	100.0	2886	5	PCT-US95-13361-2	Sequence 2, Appl
C 996	10	100.0	2670	4	US-10-020-079-19	Sequence 19, Appl	c1069	10	100.0	2890	3	US-08-848-810-1	Sequence 1, Appl
C 997	10	100.0	2681	4	US-09-749-340-8	Sequence 8, Appl	1070	10	100.0	2896	4	US-09-266-2250-9	Sequence 9, Appl
C 998	10	100.0	2682	2	US-08-867-941-7	Sequence 7, Appl	c1071	10	100.0	2898	1	US-08-554-612C-51	Sequence 51, Appl
C 999	10	100.0	2682	3	US-09-074-658-7	Sequence 7, Appl	1072	10	100.0	2900	4	US-09-620-312D-1045	Sequence 1045, Ap
C 1000	10	100.0	2685	4	US-09-854-856-53	Sequence 53, Appl	1073	10	100.0	2907	2	US-09-018-628-17	Sequence 17, Appl
C 1001	10	100.0	2686	4	US-09-795-691-1	Sequence 1, Appl	1074	10	100.0	2907	3	US-09-273-378-17	Sequence 17, Appl
C 1002	10	100.0	2688	4	US-10-020-079-17	Sequence 17, Appl	1075	10	100.0	2907	3	US-09-018-635-26	Sequence 26, Appl
C 1003	10	100.0	2691	4	US-09-020-743-1	Sequence 1, Appl	1076	10	100.0	2907	4	US-09-467-642-3	Sequence 3, Appl
C 1004	10	100.0	2694	2	US-08-867-941-2	Sequence 2, Appl	1077	10	100.0	2907	4	US-08-312-962-26	Sequence 26, Appl
C 1005	10	100.0	2694	3	US-09-074-658-2	Sequence 2, Appl	1078	10	100.0	2909	1	US-08-554-612C-10	Sequence 10, Appl
C 1006	10	100.0	2697	4	US-09-620-312D-401	Sequence 401, App	1079	10	100.0	2909	1	US-08-554-612C-11	Sequence 11, Appl
C 1007	10	100.0	2698	4	US-09-749-340-5	Sequence 5, Appl	1080	10	100.0	2925	2	US-09-014-969-10	Sequence 10, Appl
C 1008	10	100.0	2699	3	US-09-460-145-3	Sequence 3, Appl	c1081	10	100.0	2925	4	US-09-883-134-6	Sequence 6, Appl
C 1009	10	100.0	2699	4	US-09-895-547-3	Sequence 3, Appl	c1082	10	100.0	2928	4	US-09-252-991A-12178	Sequence 12178, A
C 1010	10	100.0	2701	4	US-09-547-435-1	Sequence 1, Appl	c1083	10	100.0	2931	4	US-10-020-079-27	Sequence 27, Appl
C 1011	10	100.0	2707	3	US-08-992-035A-5	Sequence 5, Appl	c1084	10	100.0	2937	6	5208144-7	Patent No. 5208144
C 1012	10	100.0	2707	4	US-09-870-956-1	Sequence 1, Appl	c1085	10	100.0	2940	1	US-08-428-415-3	Sequence 3, Appl
C 1013	10	100.0	2707	4	US-09-870-956-55	Sequence 55, Appl	c1086	10	100.0	2940	1	US-08-379-685-3	Sequence 3, Appl
C 1014	10	100.0	2712	4	US-09-252-991A-12204	Sequence 12204, A	c1087	10	100.0	2940	2	US-08-854-029-3	Sequence 3, Appl
C 1015	10	100.0	2724	2	US-08-481-337A-3	Sequence 3, Appl	c1088	10	100.0	2940	3	US-08-428-762-3	Sequence 3, Appl
C 1016	10	100.0	2724	3	US-09-382-256-3	Sequence 3, Appl	c1089	10	100.0	2947	4	US-08-675-498A-1	Sequence 1, Appl
C 1017	10	100.0	2724	3	US-09-393-115-3	Sequence 3, Appl	c1090	10	100.0	2947	4	US-08-812-008-1	Sequence 1, Appl
C 1018	10	100.0	2724	4	US-08-436-265-3	Sequence 3, Appl	c1092	10	100.0	2949	4	US-09-854-856-5	Sequence 5, Appl
C 1019	10	100.0	2724	4	US-09-679-187-3	Sequence 3, Appl	c1093	10	100.0	2955	4	US-10-020-079-25	Sequence 25, Appl
C 1020	10	100.0	2724	4	US-08-448-371A-3	Sequence 3, Appl	1094	10	100.0	2976	3	US-09-352-159-26	Sequence 26, Appl
C 1021	10	100.0	2724	5	PCT-US95-05467-3	Sequence 3, Appl	1095	10	100.0	2976	3	US-09-352-159-26	Sequence 26, Appl
C 1022	10	100.0	2729	1	US-08-412-431-2	Sequence 2, Appl	c1096	10	100.0	2977	4	US-09-023-655-1042	Sequence 1042, Ap
C 1023	10	100.0	2729	1	US-08-623-679-2	Sequence 2, Appl	c1097	10	100.0	2988	4	US-09-016-434-1357	Sequence 1357, Ap
C 1024	10	100.0	2729	3	US-08-933-774-2	Sequence 2, Appl	1098	10	100.0	2988	4	US-09-800-274-2	Sequence 2, Appl
C 1025	10	100.0	2729	3	US-09-181-030-2	Sequence 2, Appl	c1099	10	100.0	3001	4	US-09-539-333D-143	Sequence 143, App
C 1026	10	100.0	2729	4	US-09-534-242-2	Sequence 2, Appl	1100	10	100.0	3015	4	US-09-489-039A-2544	Sequence 2544, Ap
C 1027	10	100.0	2729	4	US-09-454-854-2	Sequence 2, Appl	c1101	10	100.0	3023	4	US-09-593-589-10	Sequence 10, Appl
C 1028	10	100.0	2729	4	US-09-164-671-2	Sequence 2, Appl	1102	10	100.0	3024	4	US-09-252-991A-12202	Sequence 12202, A
C 1029	10	100.0	2730	4	US-09-489-039A-6744	Sequence 6744, Ap	c1103	10	100.0	3036	4	US-09-149-476-317	Sequence 317, App
C 1030	10	100.0	2742	3	US-08-911-853-16	Sequence 16, Appl	c1104	10	100.0	3037	2	US-08-938-365-1	Sequence 1, Appl
C 1031	10	100.0	2742	3	US-09-479-409-16	Sequence 16, Appl	c1105	10	100.0	3054	4	US-09-149-476-194	Sequence 194, App
C 1032	10	100.0	2742	4	US-09-479-453-16	Sequence 16, Appl	c1106	10	100.0	3060	4	US-09-252-991A-7846	Sequence 7846, Ap
C 1033	10	100.0	2743	4	US-09-620-312D-18	Sequence 18, Appl	c1107	10	100.0	3063	4	US-09-252-991A-12299	Sequence 12299, A
C 1034	10	100.0	2748	4	US-09-786-240-27	Sequence 27, Appl	1108	10	100.0	3063	4	US-09-489-039A-6548	Sequence 6548, Ap
C 1035	10	100.0	2760	4	US-09-489-039A-3028	Sequence 3028, Ap	c1109	10	100.0	3076	4	US-09-710-794-1	Sequence 1, Appl
C 1036	10	100.0	2763	4	US-09-668-680-8	Sequence 8, Appl	c1110	10	100.0	3085	3	US-08-627-208-2	Sequence 2, Appl
C 1037	10	100.0	2763	4	US-09-252-991A-12347	Sequence 12347, A	1111	10	100.0	3085	3	US-08-627-208-2	Sequence 2, Appl
C 1038	10	100.0	2769	4	US-09-883-134-8	Sequence 37, Appl	1112	10	100.0	3085	3	US-09-500-358-2	Sequence 2, Appl
C 1039	10	100.0	2769	4	US-09-854-856-37	Sequence 37, Appl	1113	10	100.0	3085	3	US-09-500-358-4	Sequence 4, Appl
C 1040	10	100.0	2771	4	US-09-016-434-1101	Sequence 1101, Ap	1114	10	100.0	3085	3	US-09-498-809-2	Sequence 2, Appl
C 1041	10	100.0	2805	4	US-09-252-991A-2944	Sequence 2944, Ap	1115	10	100.0	3085	3	US-09-498-809-4	Sequence 4, Appl
C 1042	10	100.0	2806	4	US-09-653-839-9	Sequence 9, Appl	c1116	10	100.0	3089	1	US-08-472-934-5	Sequence 5, Appl
C 1043	10	100.0	2806	4	US-09-688-188B-102	Sequence 102, App	c1117	10	100.0	3089	2	US-08-323-460A-5	Sequence 5, Appl
C 1044	10	100.0	2806	4	US-09-291-417D-102	Sequence 102, App	c1118	10	100.0	3089	2	US-08-461-1460-5	Sequence 5, Appl
C 1045	10	100.0	2823	2	US-08-398-008A-1	Sequence 1, Appl	c1119	10	100.0	3089	2	US-08-628-829-9	Sequence 9, Appl
C 1046	10	100.0	2823	2	US-08-893-333-1	Sequence 1, Appl	c1120	10	100.0	3089	4	US-08-628-829-9	Sequence 9, Appl
C 1047	10	100.0	2844	3	US-09-257-703-2	Sequence 2, Appl	c1121	10	100.0	3090	4	US-09-016-434-1397	Sequence 1397, Ap
C 1048	10	100.0	2844	4	US-09-871-889A-2	Sequence 2, Appl	c1122	10	100.0	3105	4	US-09-252-991A-12350	Sequence 12350, A
C 1049	10	100.0	2844	4	US-09-719-190-1	Sequence 1, Appl							

c1123	10	100.0	3111	2	US-09-014-969-12	Sequence 12, Appl	1196	10	100.0	3611	3	US-08-445-461-1	Sequence 1, Appl
c1124	10	100.0	3120	1	US-08-222-616-22	Sequence 22, Appl	c1197	10	100.0	3612	4	US-09-489-039A-5155	Sequence 5155, Ap
c1125	10	100.0	3120	4	US-08-445-648-22	Sequence 22, Appl	c1198	10	100.0	3632	1	US-07-745-382-13	Sequence 13, Appl
c1126	10	100.0	3120	4	US-09-582-610-22	Sequence 22, Appl	1199	10	100.0	3632	1	US-07-921-848-13	Sequence 13, Appl
c1127	10	100.0	3120	5	PCT-US95-04228-22	Sequence 45, Appl	1200	10	100.0	3632	1	US-08-115-680-3	Sequence 3, Appl
c1128	10	100.0	3147	4	US-09-489-039A-45	Sequence 45, Appl	1201	10	100.0	3632	1	US-07-941-372-3	Sequence 13, Appl
c1129	10	100.0	3150	4	US-09-252-991A-727	Sequence 727, App	1202	10	100.0	3632	1	US-08-165-301A-13	Sequence 13, Appl
c1130	10	100.0	3156	2	US-08-887-518-1	Sequence 1, Appl	1203	10	100.0	3632	1	US-08-810-436-13	Sequence 13, Appl
c1131	10	100.0	3156	2	US-09-023-321-1	Sequence 1, Appl	1204	10	100.0	3632	5	PCT-US93-08247-3	Sequence 3, Appl
c1132	10	100.0	3156	2	US-09-032-475-1	Sequence 1, Appl	1205	10	100.0	3632	5	PCT-US94-14179-13	Sequence 13, Appl
c1133	10	100.0	3171	4	US-09-079-812E-1	Sequence 1, Appl	1206	10	100.0	3653	3	US-08-973-334-1	Sequence 1, Appl
c1134	10	100.0	3172	4	US-09-976-594-940	Sequence 940, App	1207	10	100.0	3653	3	US-09-563-869A-1	Sequence 1, Appl
c1135	10	100.0	3176	1	US-08-425-299A-3	Sequence 3, Appl	1208	10	100.0	3653	3	US-08-549-489-1	Sequence 1, Appl
c1136	10	100.0	3176	2	US-08-486-663A-14	Sequence 14, Appl	1209	10	100.0	3660	4	US-09-252-991A-12269	Sequence 12269, A
c1137	10	100.0	3176	2	US-08-247-904B-13	Sequence 13, Appl	1210	10	100.0	3661	3	US-08-718-388-5	Sequence 5, Appl
c1138	10	100.0	3176	3	US-08-767-942A-14	Sequence 14, Appl	1211	10	100.0	3678	4	US-09-252-991A-12417	Sequence 12417, A
c1139	10	100.0	3177	2	US-09-070-060-10	Sequence 10, Appl	c1212	10	100.0	3694	3	US-09-232-200-46	Sequence 46, Appl
c1140	10	100.0	3177	3	US-09-357-746-10	Sequence 10, Appl	c1213	10	100.0	3694	4	US-09-232-197-46	Sequence 46, Appl
c1141	10	100.0	3225	1	US-08-306-691B-45	Sequence 45, Appl	c1214	10	100.0	3694	4	US-09-232-201-46	Sequence 46, Appl
c1142	10	100.0	3225	5	PCT-US93-06251-91	Sequence 91, Appl	c1215	10	100.0	3694	4	US-09-232-195-46	Sequence 46, Appl
c1143	10	100.0	3227	4	US-09-620-312D-103	Sequence 103, App	c1216	10	100.0	3704	3	US-09-232-200-24	Sequence 24, Appl
c1144	10	100.0	3230	5	PCT-US93-06251-89	Sequence 89, Appl	c1217	10	100.0	3704	4	US-09-232-197-24	Sequence 24, Appl
c1145	10	100.0	3238	4	US-08-123-934A-5	Sequence 5, Appl	c1218	10	100.0	3704	4	US-09-232-201-24	Sequence 24, Appl
c1146	10	100.0	3238	4	US-09-874-628-5	Sequence 5, Appl	c1219	10	100.0	3704	4	US-09-232-195-24	Sequence 24, Appl
c1147	10	100.0	3238	5	PCT-US94-10080-5	Sequence 5, Appl	c1220	10	100.0	3733	4	US-09-293-549-1	Sequence 1, Appl
c1148	10	100.0	3252	4	US-09-604-608-1	Sequence 1, Appl	c1221	10	100.0	3760	2	US-08-724-354D-1	Sequence 1, Appl
c1149	10	100.0	3267	4	US-09-453-702B-170	Sequence 170, App	c1222	10	100.0	3760	3	US-09-270-984A-1	Sequence 1, Appl
c1150	10	100.0	3280	4	US-09-484-970B-43	Sequence 43, Appl	c1223	10	100.0	3780	4	US-09-489-039A-1669	Sequence 1669, Ap
c1151	10	100.0	3280	4	US-09-489-847-32	Sequence 32, Appl	c1224	10	100.0	3785	1	US-08-445-640-9	Sequence 9, Appl
c1152	10	100.0	3300	4	US-09-489-847-114	Sequence 114, App	c1225	10	100.0	3785	3	US-08-170-558-9	Sequence 9, Appl
c1153	10	100.0	3307	1	US-08-456-647B-5	Sequence 5, Appl	c1226	10	100.0	3785	3	US-08-447-314-9	Sequence 9, Appl
c1154	10	100.0	3307	2	US-08-237-401A-5	Sequence 5, Appl	c1227	10	100.0	3785	3	US-08-445-461-9	Sequence 9, Appl
c1155	10	100.0	3318	4	US-09-593-589-3	Sequence 3, Appl	c1228	10	100.0	3805	4	US-09-230-132-9	Sequence 9, Appl
c1156	10	100.0	3324	4	US-09-489-039A-1719	Sequence 1719, Ap	c1229	10	100.0	3810	2	US-08-475-844-8	Sequence 8, Appl
c1157	10	100.0	3332	4	US-09-423-890-11	Sequence 11, Appl	c1230	10	100.0	3810	5	PCT-US95-08429-8	Sequence 8, Appl
c1158	10	100.0	3355	4	US-09-221-017B-412	Sequence 412, App	c1231	10	100.0	3836	4	US-09-976-594-59	Sequence 59, Appl
c1159	10	100.0	3377	4	US-09-819-989-1	Sequence 1, Appl	c1232	10	100.0	3867	3	US-08-762-428A-5	Sequence 5, Appl
c1160	10	100.0	3377	4	US-10-273-992-1	Sequence 1, Appl	c1233	10	100.0	3972	4	US-09-770-170-1	Sequence 1, Appl
c1161	10	100.0	3378	4	US-09-513-783A-151	Sequence 151, App	c1234	10	100.0	3979	3	US-09-085-199B-10	Sequence 10, Appl
c1162	10	100.0	3382	4	US-09-099-041A-7	Sequence 7, Appl	c1235	10	100.0	3987	4	US-09-082-649B-84	Sequence 84, Appl
c1163	10	100.0	3382	4	US-09-245-281-7	Sequence 7, Appl	c1236	10	100.0	4016	3	US-08-762-428A-7	Sequence 7, Appl
c1164	10	100.0	3382	4	US-09-207-359B-7	Sequence 7, Appl	c1237	10	100.0	4020	3	US-09-050-159-130	Sequence 130, App
c1165	10	100.0	3382	4	US-09-340-620A-7	Sequence 7, Appl	c1238	10	100.0	4020	4	US-09-023-655-1003	Sequence 1003, Ap
c1166	10	100.0	3382	4	US-09-865-364-7	Sequence 7, Appl	c1239	10	100.0	4024	3	US-09-162-484-18	Sequence 18, Appl
c1167	10	100.0	3384	4	US-09-547-435-29	Sequence 29, Appl	c1240	10	100.0	4056	4	US-09-489-039A-3861	Sequence 3861, Ap
c1168	10	100.0	3385	1	US-08-405-392-1	Sequence 1, Appl	c1241	10	100.0	4072	3	US-09-272-496-7	Sequence 7, Appl
c1169	10	100.0	3385	3	US-08-487-691-1	Sequence 1, Appl	c1242	10	100.0	4080	4	US-09-016-434-1326	Sequence 1326, Ap
c1170	10	100.0	3385	3	US-08-666-221B-3	Sequence 3, Appl	c1243	10	100.0	4114	1	US-08-165-301A-29	Sequence 29, Appl
c1171	10	100.0	3385	3	US-08-666-221B-9	Sequence 9, Appl	c1244	10	100.0	4114	3	US-08-810-436-29	Sequence 29, Appl
c1172	10	100.0	3385	4	US-08-189-738A-1	Sequence 1, Appl	c1245	10	100.0	4114	5	PCT-US94-14179-29	Sequence 29, Appl
c1173	10	100.0	3393	1	US-08-295-502-1	Sequence 1, Appl	c1246	10	100.0	4133	4	US-09-688-188B-11	Sequence 11, Appl
c1174	10	100.0	3393	5	PCT-US95-10691-1	Sequence 1, Appl	c1247	10	100.0	4133	4	US-09-291-417D-11	Sequence 11, Appl
c1175	10	100.0	3417	4	US-09-252-991A-3720	Sequence 3720, Ap	c1248	10	100.0	4141	4	US-09-245-281-42	Sequence 42, Appl
c1176	10	100.0	3417	4	US-09-668-680-7	Sequence 7, Appl	c1249	10	100.0	4141	4	US-09-207-359B-42	Sequence 42, Appl
c1177	10	100.0	3423	1	US-08-366-577-1	Sequence 1, Appl	c1250	10	100.0	4141	4	US-09-340-620A-42	Sequence 42, Appl
c1178	10	100.0	3435	5	PCT-US96-00005-1	Sequence 1, Appl	c1251	10	100.0	4141	4	US-09-865-364-42	Sequence 42, Appl
c1179	10	100.0	3435	5	US-09-866-028-6	Sequence 6, Appl	c1252	10	100.0	4175	3	US-09-749-340-3	Sequence 3, Appl
c1180	10	100.0	3441	4	US-09-620-312D-653	Sequence 653, App	c1253	10	100.0	4183	4	US-09-460-145-1	Sequence 1, Appl
c1181	10	100.0	3446	4	US-09-293-549-3	Sequence 3, Appl	c1254	10	100.0	4183	4	US-09-895-547-1	Sequence 1, Appl
c1182	10	100.0	3457	4	US-09-976-594-345	Sequence 345, App	c1255	10	100.0	4185	3	US-08-964-268-1	Sequence 1, Appl
c1183	10	100.0	3470	4	US-09-711-164-230	Sequence 230, App	c1256	10	100.0	4185	4	US-09-105-254-1	Sequence 1, Appl
c1184	10	100.0	3483	4	US-09-711-164-230	Sequence 230, App	c1257	10	100.0	4193	4	US-09-187-330-58	Sequence 58, Appl
c1185	10	100.0	3498	3	US-08-293-728-1	Sequence 1, Appl	c1258	10	100.0	4195	1	US-08-200-016-1	Sequence 1, Appl
c1186	10	100.0	3498	3	US-09-421-868-1	Sequence 1, Appl	c1259	10	100.0	4221	4	US-09-651-656-22	Sequence 22, Appl
c1187	10	100.0	3512	4	US-09-749-340-7	Sequence 7, Appl	c1260	10	100.0	4221	4	US-09-620-312D-380	Sequence 380, App
c1188	10	100.0	3544	4	US-09-816-494-1	Sequence 1, Appl	c1261	10	100.0	4235	4	US-09-023-655-1379	Sequence 1379, Ap
c1189	10	100.0	3570	4	US-09-489-039A-6605	Sequence 6605, Ap	c1262	10	100.0	4267	4	US-08-264-002-1	Sequence 1, Appl
c1190	10	100.0	3591	3	US-09-352-159-30	Sequence 30, Appl	c1263	10	100.0	4299	1	US-09-245-281-38	Sequence 38, Appl
c1191	10	100.0	3591	3	US-09-352-168-30	Sequence 30, Appl	c1264	10	100.0	4302	4	US-09-207-359B-38	Sequence 38, Appl
c1192	10	100.0	3604	4	US-09-016-434-1180	Sequence 1180, Ap	c1265	10	100.0	4302	4	US-09-340-620A-38	Sequence 38, Appl
c1193	10	100.0	3611	1	US-08-445-640-1	Sequence 1, Appl	c1266	10	100.0	4302	4	US-09-865-364-38	Sequence 38, Appl
c1194	10	100.0	3611	3	US-08-170-558-1	Sequence 1, Appl	c1267	10	100.0	4302	4	US-09-865-364-38	Sequence 38, Appl
c1195	10	100.0	3611	3	US-08-447-314-1	Sequence 1, Appl	c1268	10	100.0	4315	4	US-09-444-905-1	Sequence 1, Appl



c1269	10	100.0	4316	1	US-08-317-450B-14	Sequence 14, Appl	1342	10	100.0	5433	4	US-09-561-818A-15	Sequence 15, Appl
c1270	10	100.0	4316	3	US-08-800-593-14	Sequence 14, Appl	1343	10	100.0	5463	4	US-09-064-199-1	Sequence 1, Appl
c1271	10	100.0	4346	4	US-09-064-199-12	Sequence 12, Appl	c1344	10	100.0	5494	4	US-09-437-568A-45	Sequence 45, Appl
c1272	10	100.0	4366	4	US-09-064-199-14	Sequence 14, Appl	c1345	10	100.0	5578	1	US-08-081-610-2	Sequence 2, Appl
c1273	10	100.0	4386	4	US-09-364-609-7	Sequence 7, Appl	1346	10	100.0	5581	4	US-09-023-655-966	Sequence 966, Appl
c1274	10	100.0	4418	4	US-09-064-199-13	Sequence 13, Appl	1347	10	100.0	5613	4	US-09-562-702A-13	Sequence 13, Appl
c1275	10	100.0	4425	2	US-08-749-169A-1	Sequence 1, Appl	1348	10	100.0	5613	4	US-09-561-818A-13	Sequence 13, Appl
c1276	10	100.0	4425	2	US-09-130-032A-1	Sequence 1, Appl	1349	10	100.0	5613	4	US-09-561-709B-10	Sequence 10, Appl
c1277	10	100.0	4431	4	US-09-064-199-8	Sequence 8, Appl	1350	10	100.0	5631	4	US-09-052-469-1	Sequence 1, Appl
c1278	10	100.0	4438	4	US-09-566-921-81	Sequence 81, Appl	1351	10	100.0	5631	4	US-08-422-582-1	Sequence 1, Appl
c1279	10	100.0	4441	4	US-09-641-999-2	Sequence 2, Appl	1352	10	100.0	5631	4	US-09-052-462-1	Sequence 1, Appl
c1280	10	100.0	4441	4	US-09-064-199-10	Sequence 10, Appl	1353	10	100.0	5632	3	US-09-560-594-3	Sequence 3, Appl
c1281	10	100.0	4482	4	US-09-489-039A-6516	Sequence 6516, Appl	c1354	10	100.0	5645	4	US-09-023-655-1319	Sequence 1319, Appl
c1282	10	100.0	4488	3	US-08-406-030A-3	Sequence 3, Appl	1355	10	100.0	5658	3	US-08-881-450A-23	Sequence 23, Appl
c1283	10	100.0	4529	2	US-08-449-645A-16	Sequence 16, Appl	c1356	10	100.0	5681	4	US-09-919-172-58	Sequence 58, Appl
c1284	10	100.0	4529	2	US-08-702-367A-16	Sequence 16, Appl	1357	10	100.0	5689	4	US-09-562-702A-17	Sequence 17, Appl
c1285	10	100.0	4529	5	PCT-US95-04681-16	Sequence 16, Appl	1358	10	100.0	5689	4	US-09-561-818A-17	Sequence 17, Appl
c1286	10	100.0	4533	3	US-08-726-214-5	Sequence 5, Appl	c1359	10	100.0	5828	4	US-09-023-655-1386	Sequence 1386, Appl
c1287	10	100.0	4543	2	US-08-519-547A-5	Sequence 5, Appl	1360	10	100.0	5843	1	US-08-554-612C-2	Sequence 2, Appl
c1288	10	100.0	4549	4	US-09-064-199-9	Sequence 9, Appl	c1361	10	100.0	5915	4	US-09-382-552-3	Sequence 3, Appl
c1289	10	100.0	4564	4	US-09-064-199-2	Sequence 2, Appl	c1362	10	100.0	5924	1	US-08-459-586-6	Sequence 6, Appl
c1290	10	100.0	4566	2	US-08-465-197A-1	Sequence 1, Appl	c1363	10	100.0	5924	2	US-08-382-696-6	Sequence 6, Appl
c1291	10	100.0	4566	2	US-08-982-412-1	Sequence 1, Appl	c1364	10	100.0	5933	4	US-09-919-172-23	Sequence 23, Appl
c1292	10	100.0	4602	3	US-08-904-452-3	Sequence 3, Appl	c1365	10	100.0	5935	3	US-09-178-873B-17	Sequence 17, Appl
c1293	10	100.0	4602	4	US-09-517-639-3	Sequence 3, Appl	c1366	10	100.0	5935	4	US-09-419-568F-29	Sequence 29, Appl
c1294	10	100.0	4604	4	US-09-976-594-1034	Sequence 1034, Appl	c1367	10	100.0	5935	4	US-09-354-243B-29	Sequence 29, Appl
c1295	10	100.0	4649	4	US-09-064-199-11	Sequence 11, Appl	c1368	10	100.0	6045	3	US-08-675-566-18	Sequence 18, Appl
c1296	10	100.0	4663	4	US-09-620-312D-328	Sequence 328, Appl	c1369	10	100.0	6048	4	US-09-634-920-3	Sequence 3, Appl
c1297	10	100.0	4695	2	US-08-231-193A-57	Sequence 57, Appl	c1370	10	100.0	6048	4	US-09-514-907A-1	Sequence 1, Appl
c1298	10	100.0	4695	2	US-08-486-273A-57	Sequence 57, Appl	c1371	10	100.0	6048	4	US-09-896-994-1	Sequence 1, Appl
c1299	10	100.0	4695	3	US-08-940-086A-57	Sequence 57, Appl	c1372	10	100.0	6122	3	US-08-403-545-1	Sequence 1, Appl
c1300	10	100.0	4695	4	US-08-940-035A-57	Sequence 57, Appl	c1373	10	100.0	6122	3	US-08-404-381-1	Sequence 1, Appl
c1301	10	100.0	4695	4	US-08-935-105A-57	Sequence 57, Appl	c1374	10	100.0	6152	1	US-08-557-139-1	Sequence 1, Appl
c1302	10	100.0	4695	4	US-09-648-797-57	Sequence 57, Appl	c1375	10	100.0	6156	4	US-09-392-812A-3	Sequence 3, Appl
c1303	10	100.0	4695	4	US-09-386-123-57	Sequence 57, Appl	c1376	10	100.0	6240	4	US-09-382-552-117	Sequence 117, Appl
c1304	10	100.0	4700	3	US-09-150-460B-9	Sequence 9, Appl	c1377	10	100.0	6244	3	US-08-675-566-17	Sequence 17, Appl
c1305	10	100.0	4736	3	US-09-056-105-12	Sequence 12, Appl	c1378	10	100.0	6330	4	US-09-880-427-2	Sequence 2, Appl
c1306	10	100.0	4741	3	US-09-056-105-11	Sequence 11, Appl	c1379	10	100.0	6330	4	US-09-306-538B-2	Sequence 2, Appl
c1307	10	100.0	4743	3	US-09-339-964-1	Sequence 1, Appl	c1380	10	100.0	6363	2	US-08-929-967-6	Sequence 6, Appl
c1308	10	100.0	4746	4	US-09-064-199-7	Sequence 7, Appl	c1381	10	100.0	6447	3	US-08-675-566-16	Sequence 16, Appl
c1309	10	100.0	4758	4	US-09-620-312D-840	Sequence 840, Appl	c1382	10	100.0	6463	2	US-08-362-284-3	Sequence 3, Appl
c1310	10	100.0	4833	4	US-09-513-783A-21	Sequence 21, Appl	c1383	10	100.0	6463	2	US-08-962-284-3	Sequence 3, Appl
c1311	10	100.0	4874	4	US-09-187-330-2	Sequence 2, Appl	1384	10	100.0	6474	4	US-09-854-856-51	Sequence 51, Appl
c1312	10	100.0	4894	4	US-09-976-594-155	Sequence 155, Appl	c1385	10	100.0	6491	4	US-09-585-174-1	Sequence 1, Appl
c1313	10	100.0	5004	4	US-09-489-039A-4453	Sequence 4453, Appl	c1386	10	100.0	6525	3	US-08-762-500-74	Sequence 74, Appl
c1314	10	100.0	5009	4	US-09-596-002-6	Sequence 6, Appl	c1387	10	100.0	6525	3	US-08-854-856-35	Sequence 35, Appl
c1315	10	100.0	5022	2	US-09-289-368-1	Sequence 1, Appl	c1388	10	100.0	6558	3	US-08-675-566-4	Sequence 4, Appl
c1316	10	100.0	5105	4	US-09-064-199-3	Sequence 3, Appl	c1389	10	100.0	6612	3	US-08-675-566-15	Sequence 15, Appl
c1317	10	100.0	5113	3	US-08-973-273-2	Sequence 2, Appl	c1390	10	100.0	6654	4	US-09-854-856-19	Sequence 19, Appl
c1318	10	100.0	5125	1	US-08-453-552-11	Sequence 11, Appl	c1391	10	100.0	6671	1	US-08-280-443-1	Sequence 1, Appl
c1319	10	100.0	5125	2	US-08-710-637-11	Sequence 11, Appl	c1392	10	100.0	6671	1	US-08-457-459-1	Sequence 1, Appl
c1320	10	100.0	5125	5	PCT-US93-00907-11	Sequence 11, Appl	c1393	10	100.0	6671	5	US-08-555-678-1	Sequence 1, Appl
c1321	10	100.0	5156	4	US-09-643-597-130	Sequence 130, Appl	c1394	10	100.0	6671	3	PCT-US95-0275-1	Sequence 1, Appl
c1322	10	100.0	5156	4	US-09-480-884A-130	Sequence 130, Appl	c1395	10	100.0	6678	3	US-08-816-617A-1	Sequence 1, Appl
c1323	10	100.0	5156	4	US-09-542-615A-130	Sequence 130, Appl	c1396	10	100.0	6693	2	US-08-147-777-2	Sequence 2, Appl
c1324	10	100.0	5156	4	US-09-606-421B-130	Sequence 130, Appl	c1397	10	100.0	6693	3	US-08-452-872-2	Sequence 2, Appl
c1325	10	100.0	5156	4	US-09-221-107-130	Sequence 130, Appl	c1398	10	100.0	6693	5	PCT-US93-03985-2	Sequence 2, Appl
c1326	10	100.0	5173	4	US-08-801-308-2	Sequence 2, Appl	1399	10	100.0	6718	4	US-09-854-856-3	Sequence 3, Appl
c1327	10	100.0	5185	4	US-09-976-594-640	Sequence 640, Appl	c1400	10	100.0	6816	4	US-09-404-650-1	Sequence 1, Appl
c1328	10	100.0	5197	4	US-08-317-381-1910	Sequence 12, Appl	c1401	10	100.0	6816	4	US-09-935-541-1	Sequence 3, Appl
c1329	10	100.0	5200	3	US-08-800-593-12	Sequence 12, Appl	c1402	10	100.0	6855	4	US-09-404-650-3	Sequence 3, Appl
c1330	10	100.0	5200	3	US-08-800-593-12	Sequence 12, Appl	c1403	10	100.0	6855	4	US-09-935-541-3	Sequence 3, Appl
c1331	10	100.0	5207	4	US-10-274-978-1	Sequence 1, Appl	c1404	10	100.0	6885	4	US-09-854-856-49	Sequence 49, Appl
c1332	10	100.0	5207	4	US-10-274-978-3	Sequence 3, Appl	c1405	10	100.0	6909	4	US-09-382-552-21	Sequence 21, Appl
c1333	10	100.0	5207	4	US-08-453-552-9	Sequence 9, Appl	c1406	10	100.0	6911	4	US-09-382-552-15	Sequence 15, Appl
c1334	10	100.0	5323	1	US-08-710-637-9	Sequence 9, Appl	c1407	10	100.0	6911	4	US-09-382-552-1	Sequence 1, Appl
c1335	10	100.0	5323	5	PCT-US93-00907-9	Sequence 9, Appl	c1408	10	100.0	6911	4	US-09-382-552-16	Sequence 16, Appl
c1336	10	100.0	5323	5	US-09-562-702A-19	Sequence 19, Appl	c1409	10	100.0	6911	4	US-09-382-552-17	Sequence 17, Appl
c1337	10	100.0	5329	4	US-09-561-818A-19	Sequence 19, Appl	c1410	10	100.0	6911	4	US-09-382-552-18	Sequence 18, Appl
c1338	10	100.0	5357	4	US-09-392-184-5	Sequence 5, Appl	c1411	10	100.0	6911	4	US-09-382-552-19	Sequence 19, Appl
c1339	10	100.0	5381	4	US-09-750-580-4	Sequence 4, Appl	c1412	10	100.0	6911	4	US-09-382-552-20	Sequence 20, Appl
c1340	10	100.0	5433	4	US-09-562-702A-15	Sequence 15, Appl	c1413	10	100.0	6911	4	US-09-382-552-13	Sequence 13, Appl
c1341	10	100.0					c1414	10	100.0	6912	4		





```
Db      15 GGCAGCTGGC 6
|||||
RESULT 2
US-09-560-594-35/c
; Sequence 35, Application US/09560594
; Patent No. 6242590
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF ZINC FINGER PROTEIN-217 EXPRESSION
; FILE REFERENCE: RTS-0144
; CURRENT APPLICATION NUMBER: US/09/560.594
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-560-594-35

Query Match      100.0%; Score 10; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GGCAGCTGGC 10
|||||
Db      11 GGCAGCTGGC 2

RESULT 3
US-09-467-642-15/c
; Sequence 15, Application US/09467642
; Patent No. 6300132
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF TELOMERIC REPEAT BINDING FACTOR 2 EXPRES
; FILE REFERENCE: RTS-0106
; CURRENT APPLICATION NUMBER: US/09/467.642
; CURRENT FILING DATE: 1999-12-20
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-467-642-15

Query Match      100.0%; Score 10; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GGCAGCTGGC 10
|||||
Db      19 GGCAGCTGGC 10

RESULT 4
US-09-423-890-38
; Sequence 38, Application US/09423890
; Patent No. 6312934
; GENERAL INFORMATION:
; APPLICANT: CADUS PHARMACEUTICAL CORPORATION
; TITLE OF INVENTION: HUMAN MEKK PROTEIN AND NUCLEIC ACID MOLECULES
; FILE REFERENCE: AND USSES THEREFOR
; FILE REFERENCE: CPI-085CPCP
; CURRENT APPLICATION NUMBER: US/09/423.890
; CURRENT FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: USSN 60/078,153

; PRIOR FILING DATE: 1998-03-16
; PRIOR APPLICATION NUMBER: USSN 60/099,165
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 38
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic construct
US-09-423-890-38

Query Match      100.0%; Score 10; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GGCAGCTGGC 10
|||||
Db      2 GGCAGCTGGC 11

RESULT 5
US-08-332-562A-105
; Sequence 105, Application US/08332562A
; Patent No. 5985599
; GENERAL INFORMATION:
; APPLICANT: MCKENZIE, Ian F.C.
; APPLICANT: HOGARTH, Mark P.
; APPLICANT: HIBBS, Margaret L.
; APPLICANT: SCOTT, Bernadette M.
; APPLICANT: BONADONNA, Lisa
; APPLICANT: HULETT, Mark D.
; TITLE OF INVENTION: FC RECEPTOR FOR IMMUNOGLOBULIN
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,562A
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/896,457
; FILING DATE: 27-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 54270/119/GRHA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 105:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-332-562A-105

Query Match      100.0%; Score 10; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 5e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 GGCAGCTGGC 10  
Db 3 GGCAGCTGGC 12

RESULT 6  
US-08-332-562A-106/c  
; Sequence 106 Application US/08332562A  
; Patent No. 5985599  
; GENERAL INFORMATION:  
; APPLICANT: MCKENZIE, Ian F.C.  
; APPLICANT: HOGARTH, Mark P.  
; APPLICANT: HIBBS, Margaret L.  
; APPLICANT: SCOTT, Bernadette M.  
; APPLICANT: BONADONNA, Lisa  
; APPLICANT: HULETT, Mark D.  
; TITLE OF INVENTION: FC RECEPTOR FOR IMMUNOGLOBULIN  
; NUMBER OF SEQUENCES: 136  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/332,562A  
; FILING DATE: 31-OCT-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION NUMBER: US 07/896,457  
; FILING DATE: 27-MAY-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 54270/119/GRHA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELEX: 904136  
; INFORMATION FOR SEQ ID NO: 106:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 23 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-332-562A-106

Query Match 100.0%; Score 10; DB 2; Length 23;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
Db 21 GGCAGCTGGC 12

RESULT 7  
US-09-870-956-40  
; Sequence 40 Application US/09870956  
; Patent No. 6683169  
; GENERAL INFORMATION:  
; APPLICANT: Knipp, Gregory T.  
; APPLICANT: Herrera-Ruiz, Dea  
; APPLICANT: Rutgers, The State University of New Jersey  
; TITLE OF INVENTION: No. 6683169el Compositions for the Expression of the Human Peptid  
; TITLE OF INVENTION: Histidine Transporter 1 and Methods of Use Thereof

; FILE REFERENCE: Rutgers 00-0126  
; CURRENT APPLICATION NUMBER: US/09/870,956  
; CURRENT FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: 60/208,061  
; PRIOR FILING DATE: 2000-05-31  
; NUMBER OF SEQ ID NOS: 56  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 40  
; LENGTH: 24  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-09-870-956-40

Query Match 100.0%; Score 10; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
Db 2 GGCAGCTGGC 11

RESULT 8  
US-09-339-922A-45  
; Sequence 45 Application US/09339922A  
; Patent No. 6531580  
; GENERAL INFORMATION:  
; APPLICANT: Huse, William D.  
; APPLICANT: Wu, Herren  
; TITLE OF INVENTION: Anti-Alphav Beta3 Recombinant Human Antibodies, Nucleic  
; TITLE OF INVENTION: Acids Encoding Same and Methods of Use  
; FILE REFERENCE: P-IX 3536  
; CURRENT APPLICATION NUMBER: US/09/339,922A  
; CURRENT FILING DATE: 1999-06-24  
; NUMBER OF SEQ ID NOS: 112  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 45  
; LENGTH: 27  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)...(27)  
US-09-339-922A-45

Query Match 100.0%; Score 10; DB 4; Length 27;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
Db 10 GGCAGCTGGC 19

RESULT 9  
US-09-339-922A-89  
; Sequence 89 Application US/09339922A  
; Patent No. 6531580  
; GENERAL INFORMATION:  
; APPLICANT: Huse, William D.  
; APPLICANT: Wu, Herren  
; TITLE OF INVENTION: Anti-Alphav Beta3 Recombinant Human Antibodies, Nucleic  
; TITLE OF INVENTION: Acids Encoding Same and Methods of Use  
; FILE REFERENCE: P-IX 3536  
; CURRENT APPLICATION NUMBER: US/09/339,922A  
; CURRENT FILING DATE: 1999-06-24  
; NUMBER OF SEQ ID NOS: 112  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 89  
; LENGTH: 27  
; TYPE: DNA

```
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(27)
; OTHER INFORMATION: Description of Artificial Sequence: Mutated
; OTHER INFORMATION: complementarity determining region (CDR)
US-09-339-922A-89

Query Match 100.0%; Score 10; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 5e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10
Db 10 GGCAGCTGGC 19

RESULT 10
US-09-339-922A-91
; Sequence 91, Application US/09339922A
; Patent No. 6531580
; GENERAL INFORMATION:
; APPLICANT: Huse, William D.
; APPLICANT: Wu, Herren
; TITLE OF INVENTION: Anti-Alphav Beta3 Recombinant Human Antibodies, Nucleic
; FILE REFERENCE: P-IX 3536
; CURRENT APPLICATION NUMBER: US/09/339,922A
; CURRENT FILING DATE: 1999-06-24
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 91
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(27)
; OTHER INFORMATION: Description of Artificial Sequence: Mutated
; OTHER INFORMATION: complementarity determining region (CDR)
US-09-339-922A-91

Query Match 100.0%; Score 10; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 5e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10
Db 10 GGCAGCTGGC 19

RESULT 11
US-09-016-061-45
; Sequence 45, Application US/09016061
; Patent No. 6596850
; GENERAL INFORMATION:
; APPLICANT: Huse, William D.
; APPLICANT: Glaser, Scott M.
; TITLE OF INVENTION: Anti-Alpha V Beta 3 Recombinant Human
; TITLE OF INVENTION: Antibodies, Nucleic Acids Encoding Same and Methods of Use
; NUMBER OF SEQUENCES: 100
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; APPLICATION NUMBER: US/09/016,061
; FILING DATE: 30-JAN-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/791,391
; FILING DATE: 30-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-IX 2965
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 base pairs
```

```
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,061
; FILING DATE: 30-JAN-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/791,391
; FILING DATE: 30-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-IX 2965
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..27
US-09-016-061-45

Query Match 100.0%; Score 10; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 5e+03;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10
Db 10 GGCAGCTGGC 19

RESULT 12
US-09-016-061-89
; Sequence 89, Application US/09016061
; Patent No. 6596850
; GENERAL INFORMATION:
; APPLICANT: Huse, William D.
; APPLICANT: Glaser, Scott M.
; TITLE OF INVENTION: Anti-Alpha V Beta 3 Recombinant Human
; TITLE OF INVENTION: Antibodies, Nucleic Acids Encoding Same and Methods of Use
; NUMBER OF SEQUENCES: 100
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,061
; FILING DATE: 30-JAN-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/791,391
; FILING DATE: 30-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-IX 2965
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 base pairs
```

TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..27  
US-09-016-061-89

Query Match 100.0%; Score 10; DB 4; Length 27;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
| | | | | | | |  
Db 10 GGCAGCTGGC 19

## RESULT 13

US-09-016-061-91  
; Sequence 91, Application US/09016061  
; Patent No. 6596850  
; GENERAL INFORMATION:  
; APPLICANT: Huse, William D.  
; APPLICANT: Glaser, Scott M.  
; TITLE OF INVENTION: Anti-Alpha V Beta 3 Recombinant Human  
; TITLE OF INVENTION: Antibodies, Nucleic Acids Encoding Same and Methods of Use  
; NUMBER OF SEQUENCES: 100  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell & Flores LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: United States  
; ZIP: 92122

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,061  
FILING DATE: 30-JAN-1998  
CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/791,391  
FILING DATE: 30-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-IX 2965  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 91:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 27 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear

FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..27  
US-09-016-061-91

Query Match 100.0%; Score 10; DB 4; Length 27;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
| | | | | | | |  
Db 10 GGCAGCTGGC 19

## RESULT 14

US-08-959-381A-8  
; Sequence 8, Application US/08959381A  
; Patent No. 6048711  
; GENERAL INFORMATION:  
; APPLICANT: HINUMA, SHUJI  
; APPLICANT: FUKUSUMI, SHOJI  
; APPLICANT: KAWAMATA, YUJI  
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR  
; TITLE OF INVENTION: POLYNUCLEOTIDES  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Ratner & Prestia  
; STREET: P.O. Box 980  
; CITY: Valley Forge  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19482

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/959,381A  
FILING DATE: 28-OCT-1997  
CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 286823/1996  
FILING DATE: 29-OCT-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Prestia, Paul F  
REGISTRATION NUMBER: 23,031  
REFERENCE/DOCKET NUMBER: TAK-50003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-407-0700  
TELEFAX: 610-407-0700  
TELEX: 846169

INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-08-959-381A-8

Query Match 100.0%; Score 10; DB 3; Length 28;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
| | | | | | | |  
Db 15 GGCAGCTGGC 24

## RESULT 15

US-08-373-124A-26/c  
; Sequence 26, Application US/08373124A  
; Patent No. 5646042  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700

Query Match 100.0%; Score 10; DB 3; Length 28;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
| | | | | | | |  
Db 15 GGCAGCTGGC 24

;; CITY: Los Angeles  
;; STATE: California  
;; COUNTRY: U.S.A.  
;; ZIP: 90071  
;;  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: Storage  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: Word Perfect 5.1  
;;  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: 08/245,466  
;; FILING DATE: May 18, 1994  
;; APPLICATION NUMBER: 08/192,943  
;; FILING DATE: February 7, 1994  
;; APPLICATION NUMBER: 07/987,132  
;; FILING DATE: December 7, 1992  
;; APPLICATION NUMBER: 07/936,422  
;; FILING DATE: August 26, 1992  
;;  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 209/035  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;;  
;; INFORMATION FOR SEQ ID NO: 26:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 34 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
US-08-373-124A-26

Query Match 100.0%; Score 10; DB 1; Length 34;  
Best Local Similarity 100.0%; Pred. No. 5e+03;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCAGCTGGC 10  
|||  
Db 31 GGCAGCTGGC 22

Search completed: September 1, 2004, 02:35:41  
Job time : 78.1667 secs

Exhibit P

07/86/9048

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 37.3 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098A-1\_COPY\_1450\_1455  
Perfect score: 6  
Sequence: 1 ctgect 6

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database : Issued Patents.NA.\*  
1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	100.0	8	3	US-08-859-954-294
2	6	100.0	8	3	US-08-859-954-496
3	6	100.0	9	4	US-09-989-789-2179
4	6	100.0	9	4	US-09-989-789-2180
5	6	100.0	9	4	US-09-989-789-2180
6	6	100.0	9	4	US-09-989-789-2325
7	6	100.0	9	4	US-09-989-789-2341
8	6	100.0	9	4	US-09-989-789-2436
9	6	100.0	9	5	PCT-US94-05659-1
10	6	100.0	9	5	PCT-US94-05659-3
11	6	100.0	9	5	PCT-US94-05659-17
12	6	100.0	9	5	PCT-US94-05659-18
13	6	100.0	10	1	US-08-049-283A-25
14	6	100.0	10	1	US-08-049-283A-31
15	6	100.0	10	1	US-08-335-565A-8
16	6	100.0	10	2	US-08-468-352-54
17	6	100.0	10	3	US-08-388-353-242
18	6	100.0	10	3	US-08-388-353-243
19	6	100.0	10	3	US-08-388-353-244
20	6	100.0	10	3	US-08-388-353-245
21	6	100.0	10	3	US-08-388-353-246
22	6	100.0	10	3	US-08-488-51B-242
23	6	100.0	10	3	US-08-488-51B-243
24	6	100.0	10	3	US-08-488-51B-244
25	6	100.0	10	3	US-08-488-51B-245
26	6	100.0	10	3	US-08-488-51B-246
27	6	100.0	10	3	US-09-063-450-30
28	6	100.0	10	4	US-09-336-946B-23
29	6	100.0	10	4	US-09-508-753B-50
30	6	100.0	10	4	US-08-894-454-110
31	6	100.0	11	1	US-08-068-945A-55
32	6	100.0	11	1	US-08-068-945A-56
33	6	100.0	11	1	US-08-255-670A-13
34	6	100.0	11	1	US-08-442-806-55
35	6	100.0	11	1	US-08-442-806-56
36	6	100.0	11	1	US-08-623-891-104
37	6	100.0	11	3	US-08-671-824-8
38	6	100.0	11	4	US-09-340-861-104
39	6	100.0	11	4	US-09-634-262-104
40	6	100.0	11	4	US-09-475-947A-95
41	6	100.0	11	4	US-09-249-155A-5
42	6	100.0	11	4	US-09-249-155A-171
43	6	100.0	11	4	US-09-249-155A-200
44	6	100.0	11	4	US-09-249-155A-248
45	6	100.0	11	4	US-09-249-155A-283
46	6	100.0	11	5	PCT-US94-05659-24
47	6	100.0	12	1	US-08-662-335A-16
48	6	100.0	12	2	US-08-441-887A-132
49	6	100.0	12	2	US-08-441-887A-133
50	6	100.0	12	2	US-08-468-352-6
51	6	100.0	12	2	US-08-494-301A-4
52	6	100.0	12	2	US-08-821-022A-7
53	6	100.0	12	2	US-08-821-022A-8
54	6	100.0	12	2	US-08-766-439-14
55	6	100.0	12	3	US-08-929-856-133
56	6	100.0	12	3	US-09-049-190-15
57	6	100.0	12	3	US-09-196-523-42
58	6	100.0	12	3	US-09-281-418-109
59	6	100.0	12	4	US-08-932-140C-15
60	6	100.0	13	1	US-08-284-746-13
61	6	100.0	13	2	US-08-800-036-1
62	6	100.0	13	2	US-08-781-550-21
63	6	100.0	13	2	US-08-173-489C-232
64	6	100.0	13	2	US-08-926-492-1
65	6	100.0	13	3	US-08-544-381B-200
66	6	100.0	13	3	US-09-048-505-1
67	6	100.0	13	4	US-08-778-794A-9
68	6	100.0	13	4	US-09-341-399-9
69	6	100.0	13	4	US-09-474-432B-105
70	6	100.0	13	4	US-09-474-432B-109
71	6	100.0	13	4	US-09-474-432B-153
72	6	100.0	13	4	US-09-474-432B-193
73	6	100.0	13	4	US-09-476-387-105
74	6	100.0	13	4	US-09-476-387-109
75	6	100.0	13	4	US-09-476-387-153
76	6	100.0	13	4	US-09-476-387-193
77	6	100.0	14	1	US-08-233-030-39
78	6	100.0	14	2	US-08-785-750-2
79	6	100.0	14	2	US-08-588-355-1
80	6	100.0	14	2	US-08-232-087A-6
81	6	100.0	14	2	US-09-116-780-5
82	6	100.0	14	2	US-08-812-102-1
83	6	100.0	14	2	US-08-784-757-1
84	6	100.0	14	3	US-08-745-957-1
85	6	100.0	14	3	US-08-985-162-1785
86	6	100.0	14	3	US-08-985-162-1803
87	6	100.0	14	3	US-08-985-162-1816
88	6	100.0	14	3	US-08-985-162-1818
89	6	100.0	14	3	US-08-985-162-1819
90	6	100.0	14	3	US-08-985-162-1864
91	6	100.0	14	3	US-08-988-099-351
92	6	100.0	14	3	US-08-988-099-352
93	6	100.0	14	3	US-08-988-099-355
94	6	100.0	14	3	US-09-309-042-1
95	6	100.0	14	3	US-08-556-978B-6
96	6	100.0	14	4	US-09-205-337-2
97	6	100.0	14	4	US-09-406-362-1
98	6	100.0	14	4	US-09-755-734-1
99	6	100.0	14	4	US-08-535-249-114
100	6	100.0	14	4	US-09-406-363-1

101	6	100.0	14	4	US-09-649-890-1	Sequence 1, Appl1	174	6	100.0	15	3	US-09-071-845-631	Sequence 631, App
102	6	100.0	14	4	US-09-969-204A-1	Sequence 1, Appl1	175	6	100.0	15	3	US-09-071-845-701	Sequence 701, App
103	6	100.0	14	4	US-09-401-063-1786	Sequence 1786, App	176	6	100.0	15	3	US-09-071-845-741	Sequence 741, App
104	6	100.0	14	4	US-09-401-063-1803	Sequence 1803, App	177	6	100.0	15	3	US-08-929-856-55	Sequence 55, Appl1
105	6	100.0	14	4	US-09-401-063-1816	Sequence 1816, App	c 178	6	100.0	15	3	US-08-929-856-56	Sequence 56, Appl1
106	6	100.0	14	4	US-09-401-063-1818	Sequence 1818, App	c 179	6	100.0	15	3	US-09-252-806-4	Sequence 4, Appl1
107	6	100.0	14	4	US-09-401-063-1819	Sequence 1819, App	c 180	6	100.0	15	3	US-09-038-073-713	Sequence 713, App
108	6	100.0	14	4	US-09-401-063-1864	Sequence 1864, App	181	6	100.0	15	3	US-09-038-073-2052	Sequence 2052, App
109	6	100.0	15	1	US-07-960-981-7	Sequence 7, Appl1	182	6	100.0	15	3	US-09-038-073-2053	Sequence 2053, App
110	6	100.0	15	1	US-07-991-855-6	Sequence 6, Appl1	c 183	6	100.0	15	3	US-09-038-073-2148	Sequence 2148, App
111	6	100.0	15	1	US-07-991-855-46	Sequence 46, Appl1	c 184	6	100.0	15	3	US-09-180-437-142	Sequence 142, App
112	6	100.0	15	1	US-07-822-043-14	Sequence 14, Appl1	c 185	6	100.0	15	3	US-09-180-437-156	Sequence 156, App
113	6	100.0	15	1	US-07-707-863-6	Sequence 6, Appl1	c 186	6	100.0	15	3	US-09-180-437-216	Sequence 216, App
114	6	100.0	15	1	US-08-185-548A-2	Sequence 2, Appl1	187	6	100.0	15	3	US-09-368-089-1	Sequence 1, Appl1
115	6	100.0	15	1	US-08-182-968A-13	Sequence 13, Appl1	188	6	100.0	15	3	US-08-943-571-13	Sequence 13, Appl1
116	6	100.0	15	1	US-08-266-414-5	Sequence 5, Appl1	189	6	100.0	15	4	US-09-541-762-14	Sequence 14, Appl1
117	6	100.0	15	1	US-08-319-492B-24	Sequence 24, Appl1	c 190	6	100.0	15	4	US-09-225-048-1	Sequence 1, Appl1
118	6	100.0	15	1	US-08-319-492B-41	Sequence 41, App	c 191	6	100.0	15	4	US-09-081-646-103	Sequence 103, App
119	6	100.0	15	1	US-08-291-932A-136	Sequence 136, App	c 192	6	100.0	15	4	US-09-081-646-156	Sequence 156, App
120	6	100.0	15	1	US-08-291-932A-311	Sequence 311, App	c 193	6	100.0	15	4	US-09-081-646-193	Sequence 193, App
121	6	100.0	15	1	US-08-291-932A-325	Sequence 325, App	c 194	6	100.0	15	4	US-09-081-646-326	Sequence 326, App
122	6	100.0	15	1	US-08-122-433-43	Sequence 43, Appl1	c 195	6	100.0	15	4	US-09-081-646-678	Sequence 678, App
123	6	100.0	15	1	US-08-334-847-51	Sequence 51, Appl1	c 196	6	100.0	15	4	US-09-081-646-754	Sequence 754, App
124	6	100.0	15	1	US-08-363-240A-140	Sequence 140, App	c 197	6	100.0	15	4	US-09-081-646-787	Sequence 787, App
125	6	100.0	15	1	US-08-363-240A-152	Sequence 152, App	c 198	6	100.0	15	4	US-08-584-040-8463	Sequence 8463, App
126	6	100.0	15	1	US-08-363-240A-679	Sequence 679, App	c 199	6	100.0	15	4	US-08-584-040-8486	Sequence 8486, App
127	6	100.0	15	1	US-08-363-240A-680	Sequence 680, App	c 200	6	100.0	15	4	US-08-584-040-8498	Sequence 8498, App
128	6	100.0	15	1	US-08-346-455B-14	Sequence 14, Appl1	c 201	6	100.0	15	4	US-09-415-784-3	Sequence 3, Appl1
129	6	100.0	15	1	US-08-217-082A-15	Sequence 15, Appl1	c 202	6	100.0	15	4	US-09-483-831B-14	Sequence 14, Appl1
130	6	100.0	15	1	US-08-700-186-14	Sequence 14, Appl1	c 203	6	100.0	15	4	US-09-415-785A-3	Sequence 3, Appl1
131	6	100.0	15	1	US-08-311-486C-42	Sequence 42, Appl1	c 204	6	100.0	15	4	US-08-944-465-3	Sequence 3, Appl1
132	6	100.0	15	1	US-08-311-486C-43	Sequence 43, Appl1	c 205	6	100.0	15	4	US-09-415-868-3	Sequence 3, Appl1
133	6	100.0	15	1	US-08-311-486C-217	Sequence 217, App	c 206	6	100.0	15	4	US-09-415-900-3	Sequence 3, Appl1
134	6	100.0	15	2	US-08-282-620A-36	Sequence 36, Appl1	c 207	6	100.0	15	4	US-09-711-508-4	Sequence 4, Appl1
135	6	100.0	15	2	US-08-282-620A-199	Sequence 199, App	c 208	6	100.0	15	4	US-09-474-432B-106	Sequence 106, App
136	6	100.0	15	2	US-08-282-620A-200	Sequence 200, App	c 209	6	100.0	15	4	US-09-474-432B-108	Sequence 108, App
137	6	100.0	15	2	US-08-282-620A-262	Sequence 262, App	c 210	6	100.0	15	4	US-09-474-432B-110	Sequence 110, App
138	6	100.0	15	2	US-08-282-620A-263	Sequence 263, App	c 211	6	100.0	15	4	US-09-474-432B-194	Sequence 194, App
139	6	100.0	15	2	US-08-282-620A-414	Sequence 414, App	c 212	6	100.0	15	4	US-09-230-652-5	Sequence 5, Appl1
140	6	100.0	15	2	US-08-282-620A-416	Sequence 416, App	c 213	6	100.0	15	4	US-09-371-772B-4118	Sequence 4118, App
141	6	100.0	15	2	US-08-282-620A-424	Sequence 424, App	c 214	6	100.0	15	4	US-09-371-772B-4140	Sequence 4140, App
142	6	100.0	15	2	US-08-282-620A-508	Sequence 508, App	c 215	6	100.0	15	4	US-09-371-772B-4152	Sequence 4152, App
143	6	100.0	15	2	US-08-282-620A-529	Sequence 529, App	c 216	6	100.0	15	4	US-09-507-362-3	Sequence 3, Appl1
144	6	100.0	15	2	US-08-282-620A-530	Sequence 530, App	c 217	6	100.0	15	4	US-09-476-387-106	Sequence 106, App
145	6	100.0	15	2	US-08-282-620A-566	Sequence 566, App	c 218	6	100.0	15	4	US-09-476-387-108	Sequence 108, App
146	6	100.0	15	2	US-08-282-620A-611	Sequence 611, App	c 219	6	100.0	15	4	US-09-476-387-110	Sequence 110, App
147	6	100.0	15	2	US-08-282-620A-631	Sequence 631, App	c 220	6	100.0	15	4	US-09-476-387-194	Sequence 194, App
148	6	100.0	15	2	US-08-282-620A-701	Sequence 701, App	c 221	6	100.0	15	4	US-09-822-763-1	Sequence 1, Appl1
149	6	100.0	15	2	US-08-282-620A-741	Sequence 741, App	c 222	6	100.0	15	5	PCT-US93-09634-7	Sequence 7, Appl1
150	6	100.0	15	2	US-08-774-306A-13	Sequence 13, Appl1	c 223	6	100.0	15	5	PCT-US95-06613-14	Sequence 14, Appl1
151	6	100.0	15	2	US-08-821-022A-17	Sequence 17, Appl1	c 224	6	100.0	15	5	PCT-US95-17026-6	Sequence 6, Appl1
152	6	100.0	15	2	US-08-585-684B-713	Sequence 713, App	c 225	6	100.0	16	1	US-08-311-760A-344	Sequence 344, App
153	6	100.0	15	2	US-08-585-684B-2052	Sequence 2052, App	c 226	6	100.0	16	1	US-08-373-124A-134	Sequence 134, App
154	6	100.0	15	2	US-08-585-684B-2053	Sequence 2053, App	c 227	6	100.0	16	1	US-08-373-124A-147	Sequence 147, App
155	6	100.0	15	2	US-08-585-684B-2148	Sequence 2148, App	c 228	6	100.0	16	1	US-08-373-124A-148	Sequence 148, App
156	6	100.0	15	2	US-08-914-981-14	Sequence 14, Appl1	c 229	6	100.0	16	1	US-08-663-871-4	Sequence 4, Appl1
157	6	100.0	15	3	US-09-116-115-14	Sequence 14, Appl1	c 230	6	100.0	16	1	US-08-291-932A-784	Sequence 784, App
158	6	100.0	15	3	US-08-977-221-14	Sequence 14, Appl1	c 231	6	100.0	16	1	US-08-291-932A-817	Sequence 817, App
159	6	100.0	15	3	US-09-191-099-19	Sequence 19, App	c 232	6	100.0	16	1	US-08-753-147-168	Sequence 168, App
160	6	100.0	15	3	US-09-064-156A-13	Sequence 13, Appl1	c 233	6	100.0	16	1	US-08-664-894-4	Sequence 4, Appl1
161	6	100.0	15	3	US-09-071-845-36	Sequence 36, Appl1	c 234	6	100.0	16	1	US-08-435-628-134	Sequence 134, App
162	6	100.0	15	3	US-09-071-845-199	Sequence 199, App	c 235	6	100.0	16	1	US-08-435-628-148	Sequence 148, App
163	6	100.0	15	3	US-08-071-845-200	Sequence 200, App	c 236	6	100.0	16	2	US-08-292-620A-1555	Sequence 1555, App
164	6	100.0	15	3	US-08-071-845-262	Sequence 262, App	c 237	6	100.0	16	2	US-08-292-620A-1585	Sequence 1585, App
165	6	100.0	15	3	US-09-071-845-263	Sequence 263, App	c 238	6	100.0	16	2	US-08-292-620A-1614	Sequence 1614, App
166	6	100.0	15	3	US-09-071-845-414	Sequence 414, App	c 239	6	100.0	16	2	US-08-292-620A-1615	Sequence 1615, App
167	6	100.0	15	3	US-09-071-845-416	Sequence 416, App	c 240	6	100.0	16	2	US-08-292-620A-1619	Sequence 1619, App
168	6	100.0	15	3	US-09-071-845-424	Sequence 424, App	c 241	6	100.0	16	2	US-08-292-620A-1622	Sequence 1622, App
169	6	100.0	15	3	US-09-071-845-508	Sequence 508, App	c 242	6	100.0	16	2	US-08-292-620A-1627	Sequence 1627, App
170	6	100.0	15	3	US-09-071-845-529	Sequence 529, App	c 243	6	100.0	16	2	US-08-432-158-1	Sequence 1, Appl1
171	6	100.0	15	3	US-09-071-845-530	Sequence 530, App	c 244	6	100.0	16	2	US-08-464-073-2	Sequence 2, Appl1
172	6	100.0	15	3	US-09-071-845-566	Sequence 566, App	c 245	6	100.0	16	2	US-08-774-310-344	Sequence 344, App
173	6	100.0	15	3	US-09-071-845-611	Sequence 611, App	c 246	6	100.0	16	2		

c 247	6	100.0	16	2	US-08-770-235A-46	Sequence 46, Appl	320	6	100.0	17	1	US-08-435-628-1198	Sequence 1198, Ap
248	6	100.0	16	2	US-08-428-252-2	Sequence 2, Appli	321	6	100.0	17	1	US-08-435-628-1200	Sequence 1200, Ap
249	6	100.0	16	3	US-08-416-516A-2	Sequence 2, Appli	322	6	100.0	17	1	US-08-435-628-1214	Sequence 1214, Ap
250	6	100.0	16	3	US-08-532-896-34	Sequence 34, Appl	323	6	100.0	17	1	US-08-435-628-1216	Sequence 1216, Ap
251	6	100.0	16	3	US-09-071-845-1555	Sequence 1555, Ap	324	6	100.0	17	1	US-08-435-628-1218	Sequence 1218, Ap
252	6	100.0	16	3	US-09-071-845-1585	Sequence 1585, Ap	325	6	100.0	17	1	US-08-435-628-1461	Sequence 1461, Ap
253	6	100.0	16	3	US-09-071-845-1614	Sequence 1614, Ap	326	6	100.0	17	1	US-08-435-628-1463	Sequence 1463, Ap
254	6	100.0	16	3	US-09-071-845-1615	Sequence 1615, Ap	327	6	100.0	17	1	US-08-435-628-2345	Sequence 2345, Ap
255	6	100.0	16	3	US-09-071-845-1619	Sequence 1619, Ap	328	6	100.0	17	1	US-08-448-600-12	Sequence 12, Appl
256	6	100.0	16	3	US-09-071-845-1622	Sequence 1622, Ap	329	6	100.0	17	2	US-08-292-620A-1653	Sequence 1653, Ap
257	6	100.0	16	3	US-09-071-845-1627	Sequence 1627, Ap	330	6	100.0	17	2	US-08-292-620A-1660	Sequence 1660, Ap
258	6	100.0	16	3	US-08-444-818-747	Sequence 747, Appl	331	6	100.0	17	2	US-08-292-620A-1662	Sequence 1662, Ap
c 259	6	100.0	16	3	US-09-475-947A-60	Sequence 60, Appl	332	6	100.0	17	2	US-08-292-620A-1671	Sequence 1671, Ap
260	6	100.0	16	4	US-09-474-432B-18	Sequence 18, Appl	c 333	6	100.0	17	2	US-08-292-620A-1693	Sequence 1693, Ap
261	6	100.0	16	4	US-09-474-432B-34	Sequence 34, Appl	334	6	100.0	17	2	US-08-292-620A-1696	Sequence 1696, Ap
c 262	6	100.0	16	4	US-09-060-299-417	Sequence 417, Appl	335	6	100.0	17	2	US-08-292-620A-1701	Sequence 1701, Ap
c 263	6	100.0	16	4	US-09-060-299-420	Sequence 420, Appl	336	6	100.0	17	2	US-08-292-620A-1705	Sequence 1705, Ap
c 264	6	100.0	16	4	US-09-060-299-436	Sequence 436, Appl	337	6	100.0	17	2	US-08-292-620A-1706	Sequence 1706, Ap
c 265	6	100.0	16	4	US-09-402-923A-417	Sequence 417, Appl	338	6	100.0	17	2	US-08-292-620A-1708	Sequence 1708, Ap
c 266	6	100.0	16	4	US-09-402-923A-420	Sequence 420, Appl	339	6	100.0	17	2	US-08-292-620A-1758	Sequence 1758, Ap
c 267	6	100.0	16	4	US-09-402-923A-436	Sequence 436, Appl	340	6	100.0	17	2	US-08-292-620A-1792	Sequence 1792, Ap
268	6	100.0	16	4	US-09-371-772B-5675	Sequence 5675, Ap	341	6	100.0	17	2	US-08-292-620A-1826	Sequence 1826, Ap
269	6	100.0	16	4	US-09-371-772B-5676	Sequence 5676, Ap	342	6	100.0	17	2	US-08-292-620A-1827	Sequence 1827, Ap
270	6	100.0	16	4	US-09-371-772B-5880	Sequence 5880, Ap	343	6	100.0	17	2	US-08-292-620A-1839	Sequence 1839, Ap
271	6	100.0	16	4	US-09-371-772B-5880	Sequence 5880, Ap	344	6	100.0	17	2	US-08-292-620A-1888	Sequence 1888, Ap
272	6	100.0	16	4	US-09-371-772B-7046	Sequence 7046, Ap	345	6	100.0	17	2	US-08-292-620A-1888	Sequence 1888, Ap
273	6	100.0	16	4	US-09-371-772B-7047	Sequence 7047, Ap	346	6	100.0	17	2	US-08-292-620A-1908	Sequence 1908, Ap
274	6	100.0	16	4	US-09-371-772B-7071	Sequence 7071, Ap	347	6	100.0	17	2	US-08-292-620A-1909	Sequence 1909, Ap
275	6	100.0	16	4	US-09-371-772B-7072	Sequence 7072, Ap	348	6	100.0	17	2	US-08-292-620A-1910	Sequence 1910, Ap
276	6	100.0	16	4	US-09-371-772B-7117	Sequence 7117, Ap	c 349	6	100.0	17	2	US-08-292-620A-1927	Sequence 1927, Ap
277	6	100.0	16	4	US-09-476-387-18	Sequence 18, Appl	350	6	100.0	17	2	US-08-292-620A-1946	Sequence 1946, Ap
278	6	100.0	16	4	US-09-476-387-34	Sequence 34, Appl	c 351	6	100.0	17	2	US-08-292-620A-1946	Sequence 1946, Ap
279	6	100.0	16	4	US-09-479-005A-508	Sequence 508, Appl	c 352	6	100.0	17	2	US-08-292-620A-1979	Sequence 1979, Ap
280	6	100.0	16	4	US-09-479-005A-509	Sequence 509, Appl	c 353	6	100.0	17	2	US-08-493-197-11	Sequence 11, Appl
281	6	100.0	17	1	US-08-055-917-5	Sequence 5, Appli	354	6	100.0	17	2	US-08-332-766A-61	Sequence 61, Appl
282	6	100.0	17	1	US-07-701-935-3	Sequence 3, Appli	355	6	100.0	17	2	US-08-894-772-10	Sequence 10, Appl
283	6	100.0	17	1	US-08-095-068-5	Sequence 5, Appli	356	6	100.0	17	2	US-07-785-565A-5	Sequence 5, Appli
284	6	100.0	17	1	US-07-991-855-57	Sequence 57, Appl	c 357	6	100.0	17	2	US-08-194-981E-55	Sequence 55, Appl
285	6	100.0	17	1	US-08-117-965-3	Sequence 3, Appli	c 358	6	100.0	17	2	US-08-717-587A-8	Sequence 8, Appli
286	6	100.0	17	1	US-08-140-721A-5	Sequence 5, Appli	c 359	6	100.0	17	2	US-08-626-023-1	Sequence 1, Appli
c 287	6	100.0	17	1	US-08-388-381-39	Sequence 39, Appl	c 360	6	100.0	17	2	US-08-626-023-3	Sequence 3, Appli
288	6	100.0	17	1	US-08-152-313-113	Sequence 113, Appl	361	6	100.0	17	2	US-08-350-260A-297	Sequence 297, Appl
289	6	100.0	17	1	US-08-180-209B-44	Sequence 44, Appl	362	6	100.0	17	2	US-09-207-844-10	Sequence 10, Appl
290	6	100.0	17	1	US-08-390-850-519	Sequence 519, Appl	363	6	100.0	17	3	US-08-890-640-55	Sequence 55, Appl
291	6	100.0	17	1	US-08-390-850-520	Sequence 520, Appl	364	6	100.0	17	3	US-08-937-610-22	Sequence 22, Appl
292	6	100.0	17	1	US-08-233-788A-17	Sequence 17, Appl	365	6	100.0	17	3	US-08-181-664-59	Sequence 59, Appl
293	6	100.0	17	1	US-08-379-078-450	Sequence 450, Appl	366	6	100.0	17	3	US-08-985-162-224	Sequence 224, Appl
294	6	100.0	17	1	US-08-379-078-460	Sequence 460, Appl	367	6	100.0	17	3	US-08-985-162-287	Sequence 287, Appl
295	6	100.0	17	1	US-08-373-124A-296	Sequence 296, Appl	368	6	100.0	17	3	US-08-985-162-288	Sequence 288, Appl
296	6	100.0	17	1	US-08-373-124A-1198	Sequence 1198, Ap	369	6	100.0	17	3	US-08-985-162-294	Sequence 294, Appl
297	6	100.0	17	1	US-08-373-124A-1200	Sequence 1200, Ap	370	6	100.0	17	3	US-08-985-162-295	Sequence 295, Appl
298	6	100.0	17	1	US-08-373-124A-1214	Sequence 1214, Ap	371	6	100.0	17	3	US-08-985-162-691	Sequence 691, Appl
299	6	100.0	17	1	US-08-373-124A-1216	Sequence 1216, Ap	372	6	100.0	17	3	US-08-985-162-692	Sequence 692, Appl
300	6	100.0	17	1	US-08-373-124A-1218	Sequence 1218, Ap	c 373	6	100.0	17	3	US-08-985-162-693	Sequence 693, Appl
301	6	100.0	17	1	US-08-373-124A-1461	Sequence 1461, Ap	c 374	6	100.0	17	3	US-08-765-626-39	Sequence 39, Appl
302	6	100.0	17	1	US-08-373-124A-1463	Sequence 1463, Ap	375	6	100.0	17	3	US-08-883-610A-8	Sequence 8, Appli
303	6	100.0	17	1	US-08-373-124A-2345	Sequence 2345, Ap	376	6	100.0	17	3	US-08-998-099-94	Sequence 94, Appl
304	6	100.0	17	1	US-08-434-411-55	Sequence 55, Appli	377	6	100.0	17	3	US-08-998-099-94	Sequence 94, Appl
305	6	100.0	17	1	US-08-619-790C-5	Sequence 5, Appli	378	6	100.0	17	3	US-08-811-566-15	Sequence 15, Appl
306	6	100.0	17	1	US-08-434-402-55	Sequence 55, Appl	379	6	100.0	17	3	US-09-071-845-1653	Sequence 1653, Ap
307	6	100.0	17	1	US-08-579-223-113	Sequence 113, Appl	380	6	100.0	17	3	US-09-071-845-1660	Sequence 1660, Ap
308	6	100.0	17	1	US-08-435-634-519	Sequence 519, Appl	381	6	100.0	17	3	US-09-071-845-1671	Sequence 1671, Ap
309	6	100.0	17	1	US-08-435-634-520	Sequence 520, Appl	c 382	6	100.0	17	3	US-09-071-845-1693	Sequence 1693, Ap
310	6	100.0	17	1	US-08-783-288-55	Sequence 55, Appl	383	6	100.0	17	3	US-09-071-845-1696	Sequence 1696, Ap
311	6	100.0	17	1	US-08-758-306-313	Sequence 313, Appl	384	6	100.0	17	3	US-09-071-845-1701	Sequence 1701, Ap
312	6	100.0	17	1	US-08-758-306-315	Sequence 315, Appl	385	6	100.0	17	3	US-09-071-845-1705	Sequence 1705, Ap
313	6	100.0	17	1	US-08-758-306-781	Sequence 781, Appl	386	6	100.0	17	3	US-09-071-845-1708	Sequence 1708, Ap
314	6	100.0	17	1	US-08-758-306-783	Sequence 783, Appl	387	6	100.0	17	3	US-09-071-845-1758	Sequence 1758, Ap
c 315	6	100.0	17	1	US-08-758-306-1119	Sequence 1119, Ap	388	6	100.0	17	3	US-09-071-845-1792	Sequence 1792, Ap
316	6	100.0	17	1	US-08-758-306-1157	Sequence 1157, Ap	389	6	100.0	17	3	US-09-071-845-1826	Sequence 1826, Ap
317	6	100.0	17	1	US-08-758-306-1159	Sequence 1159, Ap	390	6	100.0	17	3	US-09-071-845-1827	Sequence 1827, Ap
318	6	100.0	17	1	US-08-758-306-1161	Sequence 1161, Ap	391	6	100.0	17	3	US-09-071-845-1839	Sequence 1839, Ap
319	6	100.0	17	1	US-08-435-628-296	Sequence 296, Appl	392	6	100.0	17	3		



393	6	100.0	17	3	US-09-071-845-1888	Sequence 1888, Ap	466	6	100.0	17	4	US-09-474-432B-762	Sequence 762, App
394	6	100.0	17	3	US-09-071-845-1908	Sequence 1908, Ap	467	6	100.0	17	4	US-09-230-652-132	Sequence 132, App
395	6	100.0	17	3	US-09-071-845-1908	Sequence 1909, Ap	468	6	100.0	17	4	US-09-371-772B-50	Sequence 50, Appl
396	6	100.0	17	3	US-09-071-845-1910	Sequence 1910, Ap	469	6	100.0	17	4	US-09-371-772B-610	Sequence 610, App
397	6	100.0	17	3	US-09-071-845-1912	Sequence 1912, Ap	470	6	100.0	17	4	US-09-371-772B-611	Sequence 611, App
398	6	100.0	17	3	US-09-071-845-1927	Sequence 1927, Ap	471	6	100.0	17	4	US-09-371-772B-612	Sequence 612, App
399	6	100.0	17	3	US-09-071-845-1946	Sequence 1946, Ap	472	6	100.0	17	4	US-09-371-772B-1392	Sequence 1392, Ap
400	6	100.0	17	3	US-09-071-845-1979	Sequence 1979, Ap	473	6	100.0	17	4	US-09-371-772B-1393	Sequence 1393, Ap
401	6	100.0	17	3	US-09-092-077-9	Sequence 9, Appl	474	6	100.0	17	4	US-09-371-772B-1394	Sequence 1394, Ap
402	6	100.0	17	3	US-09-216-909-7	Sequence 7, Appl	475	6	100.0	17	4	US-09-371-772B-1814	Sequence 1814, Ap
403	6	100.0	17	3	US-08-936-094A-8	Sequence 8, Appl	476	6	100.0	17	4	US-09-371-772B-1815	Sequence 1815, Ap
404	6	100.0	17	3	US-09-702-843-7	Sequence 7, Appl	C 477	6	100.0	17	4	US-09-371-772B-1818	Sequence 1818, Ap
405	6	100.0	17	3	US-09-702-847-7	Sequence 7, Appl	C 478	6	100.0	17	4	US-09-371-772B-1819	Sequence 1819, Ap
406	6	100.0	17	3	US-08-557-614-13	Sequence 13, Appl	479	6	100.0	17	4	US-09-371-772B-1890	Sequence 1890, Ap
407	6	100.0	17	3	US-08-474-853-44	Sequence 44, Appl	480	6	100.0	17	4	US-09-371-772B-1891	Sequence 1891, Ap
408	6	100.0	17	4	US-07-974-409C-63	Sequence 63, Appl	481	6	100.0	17	4	US-09-371-772B-2068	Sequence 2068, Ap
409	6	100.0	17	4	US-07-974-409C-73	Sequence 73, Appl	482	6	100.0	17	4	US-09-371-772B-2069	Sequence 2069, Ap
410	6	100.0	17	4	US-09-593-589-5	Sequence 5, Appl	483	6	100.0	17	4	US-09-371-772B-2070	Sequence 2070, Ap
411	6	100.0	17	4	US-08-584-040-1505	Sequence 1505, Ap	C 484	6	100.0	17	4	US-09-371-772B-2591	Sequence 2591, Ap
412	6	100.0	17	4	US-08-584-040-2065	Sequence 2065, Ap	485	6	100.0	17	4	US-09-371-772B-2718	Sequence 2718, Ap
413	6	100.0	17	4	US-08-584-040-2066	Sequence 2066, Ap	486	6	100.0	17	4	US-09-371-772B-2719	Sequence 2719, Ap
414	6	100.0	17	4	US-08-584-040-2067	Sequence 2067, Ap	487	6	100.0	17	4	US-09-371-772B-2863	Sequence 2863, Ap
415	6	100.0	17	4	US-08-584-040-2868	Sequence 2868, Ap	488	6	100.0	17	4	US-09-371-772B-2864	Sequence 2864, Ap
416	6	100.0	17	4	US-08-584-040-2869	Sequence 2869, Ap	489	6	100.0	17	4	US-09-371-772B-2865	Sequence 2865, Ap
417	6	100.0	17	4	US-08-584-040-2870	Sequence 2870, Ap	C 490	6	100.0	17	4	US-09-371-772B-3145	Sequence 3145, Ap
418	6	100.0	17	4	US-08-584-040-4047	Sequence 4047, Ap	491	6	100.0	17	4	US-09-371-772B-3146	Sequence 3146, Ap
419	6	100.0	17	4	US-08-584-040-4048	Sequence 4048, Ap	C 492	6	100.0	17	4	US-09-371-772B-3630	Sequence 3630, Ap
420	6	100.0	17	4	US-08-584-040-4051	Sequence 4051, Ap	C 493	6	100.0	17	4	US-09-371-772B-3631	Sequence 3631, Ap
421	6	100.0	17	4	US-08-584-040-4052	Sequence 4052, Ap	C 494	6	100.0	17	4	US-09-371-772B-3785	Sequence 3785, Ap
422	6	100.0	17	4	US-08-584-040-4123	Sequence 4123, Ap	C 495	6	100.0	17	4	US-09-371-772B-4250	Sequence 4250, Ap
423	6	100.0	17	4	US-08-584-040-4124	Sequence 4124, Ap	496	6	100.0	17	4	US-09-371-772B-4251	Sequence 4251, Ap
424	6	100.0	17	4	US-08-584-040-4301	Sequence 4301, Ap	497	6	100.0	17	4	US-09-371-772B-4252	Sequence 4252, Ap
425	6	100.0	17	4	US-08-584-040-4302	Sequence 4302, Ap	498	6	100.0	17	4	US-09-371-772B-4916	Sequence 4916, Ap
426	6	100.0	17	4	US-08-584-040-4303	Sequence 4303, Ap	499	6	100.0	17	4	US-09-371-772B-4917	Sequence 4917, Ap
427	6	100.0	17	4	US-08-584-040-5707	Sequence 5707, Ap	500	6	100.0	17	4	US-09-371-772B-4918	Sequence 4918, Ap
428	6	100.0	17	4	US-08-584-040-5861	Sequence 5861, Ap	501	6	100.0	17	4	US-09-371-772B-4919	Sequence 4919, Ap
429	6	100.0	17	4	US-08-584-040-5862	Sequence 5862, Ap	502	6	100.0	17	4	US-09-371-772B-4920	Sequence 4920, Ap
430	6	100.0	17	4	US-08-584-040-6126	Sequence 6126, Ap	503	6	100.0	17	4	US-09-371-772B-4921	Sequence 4921, Ap
431	6	100.0	17	4	US-08-584-040-6127	Sequence 6127, Ap	504	6	100.0	17	4	US-09-371-772B-5628	Sequence 5628, Ap
432	6	100.0	17	4	US-08-584-040-6128	Sequence 6128, Ap	505	6	100.0	17	4	US-09-371-772B-5629	Sequence 5629, Ap
433	6	100.0	17	4	US-08-584-040-7336	Sequence 7336, Ap	506	6	100.0	17	4	US-09-371-772B-5630	Sequence 5630, Ap
434	6	100.0	17	4	US-08-584-040-7337	Sequence 7337, Ap	507	6	100.0	17	4	US-09-371-772B-6493	Sequence 6493, Ap
435	6	100.0	17	4	US-08-584-040-7847	Sequence 7847, Ap	508	6	100.0	17	4	US-09-371-772B-6494	Sequence 6494, Ap
436	6	100.0	17	4	US-08-584-040-7848	Sequence 7848, Ap	509	6	100.0	17	4	US-09-371-772B-6495	Sequence 6495, Ap
437	6	100.0	17	4	US-08-584-040-8002	Sequence 8002, Ap	C 510	6	100.0	17	4	US-09-371-772B-6502	Sequence 6502, Ap
438	6	100.0	17	4	US-08-679-645-688	Sequence 688, App	C 511	6	100.0	17	4	US-09-371-772B-6503	Sequence 6503, Ap
439	6	100.0	17	4	US-08-679-645-690	Sequence 690, App	C 512	6	100.0	17	4	US-09-371-772B-6504	Sequence 6504, Ap
440	6	100.0	17	4	US-08-679-645-692	Sequence 692, App	513	6	100.0	17	4	US-09-371-772B-6597	Sequence 6597, Ap
441	6	100.0	17	4	US-08-679-645-766	Sequence 766, App	514	6	100.0	17	4	US-09-371-772B-6598	Sequence 6598, Ap
442	6	100.0	17	4	US-08-679-645-768	Sequence 768, App	515	6	100.0	17	4	US-09-371-772B-6599	Sequence 6599, Ap
443	6	100.0	17	4	US-08-679-645-826	Sequence 826, App	516	6	100.0	17	4	US-09-371-772B-6815	Sequence 6815, Ap
444	6	100.0	17	4	US-08-679-645-828	Sequence 828, App	517	6	100.0	17	4	US-09-371-772B-6816	Sequence 6816, Ap
445	6	100.0	17	4	US-08-679-645-830	Sequence 830, App	518	6	100.0	17	4	US-09-371-772B-6817	Sequence 6817, Ap
446	6	100.0	17	4	US-09-711-050A-2	Sequence 2, Appl	519	6	100.0	17	4	US-09-371-772B-6818	Sequence 6818, Ap
447	6	100.0	17	4	US-09-026-601-13	Sequence 13, Appl	520	6	100.0	17	4	US-09-371-772B-6819	Sequence 6819, Ap
448	6	100.0	17	4	US-09-166-205B-44	Sequence 44, Appl	521	6	100.0	17	4	US-09-371-772B-6820	Sequence 6820, Ap
449	6	100.0	17	4	US-09-034-756-15	Sequence 15, Appl	522	6	100.0	17	4	US-09-476-387-368	Sequence 368, App
450	6	100.0	17	4	US-09-104-337A-297	Sequence 297, App	523	6	100.0	17	4	US-09-476-387-369	Sequence 369, App
451	6	100.0	17	4	US-09-474-432B-369	Sequence 369, App	524	6	100.0	17	4	US-09-476-387-374	Sequence 374, App
452	6	100.0	17	4	US-09-474-432B-370	Sequence 370, App	525	6	100.0	17	4	US-09-476-387-388	Sequence 388, App
453	6	100.0	17	4	US-09-474-432B-375	Sequence 375, App	526	6	100.0	17	4	US-09-476-387-436	Sequence 436, App
454	6	100.0	17	4	US-09-474-432B-389	Sequence 389, App	527	6	100.0	17	4	US-09-476-387-439	Sequence 439, App
455	6	100.0	17	4	US-09-474-432B-437	Sequence 437, App	528	6	100.0	17	4	US-09-476-387-469	Sequence 469, App
456	6	100.0	17	4	US-09-474-432B-440	Sequence 440, App	529	6	100.0	17	4	US-09-476-387-470	Sequence 470, App
457	6	100.0	17	4	US-09-474-432B-470	Sequence 470, App	530	6	100.0	17	4	US-09-476-387-477	Sequence 477, App
458	6	100.0	17	4	US-09-474-432B-471	Sequence 471, App	531	6	100.0	17	4	US-09-476-387-505	Sequence 505, App
459	6	100.0	17	4	US-09-474-432B-478	Sequence 478, App	C 532	6	100.0	17	4	US-09-476-387-594	Sequence 594, App
460	6	100.0	17	4	US-09-474-432B-506	Sequence 506, App	C 533	6	100.0	17	4	US-09-476-387-595	Sequence 595, App
461	6	100.0	17	4	US-09-474-432B-595	Sequence 595, App	C 534	6	100.0	17	4	US-09-476-387-596	Sequence 596, App
462	6	100.0	17	4	US-09-474-432B-596	Sequence 596, App	535	6	100.0	17	4	US-09-476-387-624	Sequence 624, App
463	6	100.0	17	4	US-09-474-432B-597	Sequence 597, App	536	6	100.0	17	4	US-09-476-387-666	Sequence 666, App
464	6	100.0	17	4	US-09-474-432B-625	Sequence 625, App	537	6	100.0	17	4	US-09-476-387-761	Sequence 761, App
465	6	100.0	17	4	US-09-474-432B-667	Sequence 667, App	538	6	100.0	17	4	US-09-401-063-224	Sequence 224, App

539	6	100.0	17	4	US-09-401-063-287	Sequence 287, App	c 612	6	100.0	17	4	US-09-866-108A-1701	Sequence 1701, App
540	6	100.0	17	4	US-09-401-063-288	Sequence 288, App	c 613	6	100.0	17	4	US-09-866-108A-1702	Sequence 1702, App
541	6	100.0	17	4	US-09-401-063-294	Sequence 294, App	c 614	6	100.0	17	4	US-09-866-108A-1703	Sequence 1703, App
542	6	100.0	17	4	US-09-401-063-295	Sequence 295, App	c 615	6	100.0	17	4	US-09-866-108A-1704	Sequence 1704, App
543	6	100.0	17	4	US-09-401-063-691	Sequence 691, App	c 616	6	100.0	17	4	US-09-866-108A-1705	Sequence 1705, App
544	6	100.0	17	4	US-09-401-063-692	Sequence 692, App	c 617	6	100.0	17	4	US-09-866-108A-1706	Sequence 1706, App
545	6	100.0	17	4	US-09-401-063-693	Sequence 693, App	c 618	6	100.0	17	4	US-09-866-108A-1707	Sequence 1707, App
546	6	100.0	17	4	US-09-927-842-10	Sequence 10, App1	c 619	6	100.0	17	4	US-09-866-108A-1708	Sequence 1708, App
547	6	100.0	17	4	US-09-827-998-739	Sequence 739, App	c 620	6	100.0	17	4	US-09-866-108A-1709	Sequence 1709, App
548	6	100.0	17	4	US-09-827-998-740	Sequence 740, App	c 621	6	100.0	17	4	US-09-866-108A-2057	Sequence 2057, App
549	6	100.0	17	4	US-09-827-998-741	Sequence 741, App	c 622	6	100.0	17	4	US-09-866-108A-2058	Sequence 2058, App
550	6	100.0	17	4	US-09-827-998-742	Sequence 742, App	c 623	6	100.0	17	4	US-09-866-108A-2059	Sequence 2059, App
551	6	100.0	17	4	US-09-827-998-743	Sequence 743, App	c 624	6	100.0	17	4	US-09-866-108A-2060	Sequence 2060, App
552	6	100.0	17	4	US-09-827-998-744	Sequence 744, App	c 625	6	100.0	17	4	US-09-866-108A-2061	Sequence 2061, App
553	6	100.0	17	4	US-09-827-998-745	Sequence 745, App	c 626	6	100.0	17	4	US-09-866-108A-2062	Sequence 2062, App
554	6	100.0	17	4	US-09-827-998-746	Sequence 746, App	c 627	6	100.0	17	4	US-09-866-108A-2063	Sequence 2063, App
555	6	100.0	17	4	US-09-827-998-747	Sequence 747, App	c 628	6	100.0	17	4	US-09-866-108A-2064	Sequence 2064, App
556	6	100.0	17	4	US-09-827-998-748	Sequence 748, App	c 629	6	100.0	17	4	US-09-866-108A-2065	Sequence 2065, App
557	6	100.0	17	4	US-09-827-998-749	Sequence 749, App	c 630	6	100.0	17	4	US-09-866-108A-2066	Sequence 2066, App
558	6	100.0	17	4	US-09-827-998-750	Sequence 750, App	c 631	6	100.0	17	4	US-09-866-108A-2067	Sequence 2067, App
559	6	100.0	17	4	US-09-854-140-12	Sequence 12, App1	c 632	6	100.0	17	4	US-09-866-108A-2068	Sequence 2068, App
560	6	100.0	17	4	US-09-529-812A-12	Sequence 12, App1	c 633	6	100.0	17	4	US-09-866-108A-2206	Sequence 2206, App
561	6	100.0	17	4	US-09-866-108A-154	Sequence 154, App	c 634	6	100.0	17	4	US-09-866-108A-2207	Sequence 2207, App
562	6	100.0	17	4	US-09-866-108A-155	Sequence 155, App	c 635	6	100.0	17	4	US-09-866-108A-2208	Sequence 2208, App
563	6	100.0	17	4	US-09-866-108A-156	Sequence 156, App	c 636	6	100.0	17	4	US-09-866-108A-2209	Sequence 2209, App
564	6	100.0	17	4	US-09-866-108A-157	Sequence 157, App	c 637	6	100.0	17	4	US-09-866-108A-2210	Sequence 2210, App
565	6	100.0	17	4	US-09-866-108A-158	Sequence 158, App	c 638	6	100.0	17	4	US-09-866-108A-2211	Sequence 2211, App
566	6	100.0	17	4	US-09-866-108A-159	Sequence 159, App	c 639	6	100.0	17	4	US-09-866-108A-2212	Sequence 2212, App
567	6	100.0	17	4	US-09-866-108A-160	Sequence 160, App	c 640	6	100.0	17	4	US-09-866-108A-2213	Sequence 2213, App
568	6	100.0	17	4	US-09-866-108A-161	Sequence 161, App	c 641	6	100.0	17	4	US-09-866-108A-2214	Sequence 2214, App
569	6	100.0	17	4	US-09-866-108A-162	Sequence 162, App	c 642	6	100.0	17	4	US-09-866-108A-2215	Sequence 2215, App
570	6	100.0	17	4	US-09-866-108A-163	Sequence 163, App	c 643	6	100.0	17	4	US-09-866-108A-2216	Sequence 2216, App
571	6	100.0	17	4	US-09-866-108A-164	Sequence 164, App	c 644	6	100.0	17	4	US-09-866-108A-2217	Sequence 2217, App
572	6	100.0	17	4	US-09-866-108A-165	Sequence 165, App	c 645	6	100.0	17	4	US-09-866-108A-22565	Sequence 22565, App
573	6	100.0	17	4	US-09-866-108A-950	Sequence 950, App	c 646	6	100.0	17	4	US-09-866-108A-2556	Sequence 2556, App
574	6	100.0	17	4	US-09-866-108A-951	Sequence 951, App	c 647	6	100.0	17	4	US-09-866-108A-2557	Sequence 2557, App
575	6	100.0	17	4	US-09-866-108A-952	Sequence 952, App	c 648	6	100.0	17	4	US-09-866-108A-2558	Sequence 2558, App
576	6	100.0	17	4	US-09-866-108A-953	Sequence 953, App	c 649	6	100.0	17	4	US-09-866-108A-2559	Sequence 2559, App
577	6	100.0	17	4	US-09-866-108A-954	Sequence 954, App	c 650	6	100.0	17	4	US-09-866-108A-2570	Sequence 2570, App
578	6	100.0	17	4	US-09-866-108A-955	Sequence 955, App	c 651	6	100.0	17	4	US-09-866-108A-2571	Sequence 2571, App
579	6	100.0	17	4	US-09-866-108A-956	Sequence 956, App	c 652	6	100.0	17	4	US-09-866-108A-2572	Sequence 2572, App
580	6	100.0	17	4	US-09-866-108A-957	Sequence 957, App	c 653	6	100.0	17	4	US-09-866-108A-2573	Sequence 2573, App
581	6	100.0	17	4	US-09-866-108A-958	Sequence 958, App	c 654	6	100.0	17	4	US-09-866-108A-2574	Sequence 2574, App
582	6	100.0	17	4	US-09-866-108A-959	Sequence 959, App	c 655	6	100.0	17	4	US-09-866-108A-2575	Sequence 2575, App
583	6	100.0	17	4	US-09-866-108A-960	Sequence 960, App	c 656	6	100.0	17	4	US-09-866-108A-2576	Sequence 2576, App
584	6	100.0	17	4	US-09-866-108A-961	Sequence 961, App	c 657	6	100.0	17	4	US-09-866-108A-6264	Sequence 6264, App
585	6	100.0	17	4	US-09-866-108A-1194	Sequence 1194, App	c 658	6	100.0	17	4	US-09-866-108A-6265	Sequence 6265, App
586	6	100.0	17	4	US-09-866-108A-1195	Sequence 1195, App	c 659	6	100.0	17	4	US-09-866-108A-6266	Sequence 6266, App
587	6	100.0	17	4	US-09-866-108A-1196	Sequence 1196, App	c 660	6	100.0	17	4	US-09-866-108A-6267	Sequence 6267, App
588	6	100.0	17	4	US-09-866-108A-1197	Sequence 1197, App	c 661	6	100.0	17	4	US-09-866-108A-6268	Sequence 6268, App
589	6	100.0	17	4	US-09-866-108A-1198	Sequence 1198, App	c 662	6	100.0	17	4	US-09-866-108A-6269	Sequence 6269, App
590	6	100.0	17	4	US-09-866-108A-1199	Sequence 1199, App	c 663	6	100.0	17	4	US-09-866-108A-6270	Sequence 6270, App
591	6	100.0	17	4	US-09-866-108A-1200	Sequence 1200, App	c 664	6	100.0	17	4	US-09-866-108A-6271	Sequence 6271, App
592	6	100.0	17	4	US-09-866-108A-1201	Sequence 1201, App	c 665	6	100.0	17	4	US-09-866-108A-6272	Sequence 6272, App
593	6	100.0	17	4	US-09-866-108A-1202	Sequence 1202, App	c 666	6	100.0	17	4	US-09-866-108A-6273	Sequence 6273, App
594	6	100.0	17	4	US-09-866-108A-1203	Sequence 1203, App	c 667	6	100.0	17	4	US-09-866-108A-6274	Sequence 6274, App
595	6	100.0	17	4	US-09-866-108A-1204	Sequence 1204, App	c 668	6	100.0	17	4	US-09-866-108A-6275	Sequence 6275, App
596	6	100.0	17	4	US-09-866-108A-1205	Sequence 1205, App	c 669	6	100.0	17	4	US-09-866-108A-6458	Sequence 6458, App
597	6	100.0	17	4	US-09-866-108A-1314	Sequence 1314, App	c 670	6	100.0	17	4	US-09-866-108A-6459	Sequence 6459, App
598	6	100.0	17	4	US-09-866-108A-1315	Sequence 1315, App	c 671	6	100.0	17	4	US-09-866-108A-6461	Sequence 6461, App
599	6	100.0	17	4	US-09-866-108A-1316	Sequence 1316, App	c 672	6	100.0	17	4	US-09-866-108A-6462	Sequence 6462, App
600	6	100.0	17	4	US-09-866-108A-1317	Sequence 1317, App	c 673	6	100.0	17	4	US-09-866-108A-6463	Sequence 6463, App
601	6	100.0	17	4	US-09-866-108A-1318	Sequence 1318, App	c 674	6	100.0	17	4	US-09-866-108A-6464	Sequence 6464, App
602	6	100.0	17	4	US-09-866-108A-1319	Sequence 1319, App	c 675	6	100.0	17	4	US-09-866-108A-6465	Sequence 6465, App
603	6	100.0	17	4	US-09-866-108A-1320	Sequence 1320, App	c 676	6	100.0	17	4	US-09-866-108A-6466	Sequence 6466, App
604	6	100.0	17	4	US-09-866-108A-1321	Sequence 1321, App	c 677	6	100.0	17	4	US-09-866-108A-6467	Sequence 6467, App
605	6	100.0	17	4	US-09-866-108A-1322	Sequence 1322, App	c 678	6	100.0	17	4	US-09-866-108A-6468	Sequence 6468, App
606	6	100.0	17	4	US-09-866-108A-1323	Sequence 1323, App	c 679	6	100.0	17	4	US-09-866-108A-6469	Sequence 6469, App
607	6	100.0	17	4	US-09-866-108A-1324	Sequence 1324, App	c 680	6	100.0	17	4	US-09-866-108A-6820	Sequence 6820, App
608	6	100.0	17	4	US-09-866-108A-1325	Sequence 1325, App	c 681	6	100.0	17	4	US-09-866-108A-6821	Sequence 6821, App
609	6	100.0	17	4	US-09-866-108A-1698	Sequence 1698, App	c 682	6	100.0	17	4	US-09-866-108A-6822	Sequence 6822, App
610	6	100.0	17	4	US-09-866-108A-1699	Sequence 1699, App	c 683	6	100.0	17	4	US-09-866-108A-6823	Sequence 6823, App
611	6	100.0	17	4	US-09-866-108A-1700	Sequence 1700, App	c 684	6	100.0	17	4	US-09-866-108A-6823	Sequence 6823, App



C 831	6	100.0	18	1	US-08-311-486C-1085	Sequence 1085, Ap	C 904	6	100.0	18	3	US-09-073-465-2	Sequence 2, Appli
C 832	6	100.0	18	1	US-08-435-628-2229	Sequence 2229, Ap	905	6	100.0	18	3	US-09-073-465-4	Sequence 4, Appli
C 833	6	100.0	18	1	US-08-487-135B-12	Sequence 12, Appl	906	6	100.0	18	3	US-09-344-579-28	Sequence 28, Appl
C 834	6	100.0	18	1	US-08-487-135B-15	Sequence 15, Appl	C 907	6	100.0	18	3	US-09-344-579-31	Sequence 31, Appl
C 835	6	100.0	18	2	US-08-800-036-8	Sequence 8, Appli	C 908	6	100.0	18	3	US-09-344-579-41	Sequence 41, Appl
C 836	6	100.0	18	2	US-08-639-501-72	Sequence 72, Appl	C 909	6	100.0	18	3	US-09-344-579-43	Sequence 43, Appl
C 837	6	100.0	18	2	US-08-486-969-39	Sequence 39, Appl	C 910	6	100.0	18	3	US-08-840-316-55	Sequence 55, Appl
C 838	6	100.0	18	2	US-08-486-969-42	Sequence 42, Appl	C 911	6	100.0	18	3	US-09-029-045-9	Sequence 9, Appli
C 839	6	100.0	18	2	US-08-117-952-300	Sequence 300, App	C 912	6	100.0	18	3	US-09-132-652-18	Sequence 18, Appl
C 840	6	100.0	18	2	US-08-117-952-397	Sequence 397, App	C 913	6	100.0	18	3	US-09-143-212-75	Sequence 75, Appl
C 841	6	100.0	18	2	US-08-489-066A-4	Sequence 4, Appli	C 914	6	100.0	18	3	US-09-163-162-27	Sequence 27, Appl
C 842	6	100.0	18	2	US-08-468-531-4	Sequence 4, Appli	915	6	100.0	18	3	US-09-163-162-31	Sequence 31, Appl
C 843	6	100.0	18	2	US-08-455-968E-53	Sequence 53, Appl	916	6	100.0	18	3	US-09-166-186-12	Sequence 12, Appl
C 844	6	100.0	18	2	US-08-585-684B-2490	Sequence 2490, Ap	C 917	6	100.0	18	3	US-08-472-040A-54	Sequence 54, Appl
C 845	6	100.0	18	2	US-08-585-684B-2491	Sequence 2491, Ap	C 918	6	100.0	18	3	US-08-781-891-60	Sequence 60, Appl
C 846	6	100.0	18	2	US-08-585-684B-2492	Sequence 2492, Ap	919	6	100.0	18	3	US-09-344-521-39	Sequence 39, Appl
C 847	6	100.0	18	2	US-08-585-684B-2506	Sequence 2506, Ap	920	6	100.0	18	3	US-09-205-143-13	Sequence 13, Appl
C 848	6	100.0	18	2	US-08-585-684B-2507	Sequence 2507, Ap	C 921	6	100.0	18	3	US-09-205-143-64	Sequence 64, Appl
C 849	6	100.0	18	2	US-08-585-684B-2542	Sequence 2542, Ap	C 922	6	100.0	18	3	US-09-205-143-65	Sequence 65, Appl
C 850	6	100.0	18	2	US-08-585-684B-2667	Sequence 2667, Ap	C 923	6	100.0	18	3	US-09-280-409-16	Sequence 16, Appl
C 851	6	100.0	18	2	US-08-585-684B-2686	Sequence 2686, Ap	924	6	100.0	18	3	US-09-280-409-17	Sequence 17, Appl
C 852	6	100.0	18	2	US-08-915-972A-12	Sequence 12, Appl	925	6	100.0	18	3	US-09-280-409-48	Sequence 48, Appl
C 853	6	100.0	18	2	US-08-915-972A-15	Sequence 15, Appl	C 926	6	100.0	18	3	US-09-280-409-93	Sequence 93, Appl
C 854	6	100.0	18	2	US-08-473-486-11	Sequence 11, Appl	927	6	100.0	18	3	US-09-280-409-107	Sequence 107, App
C 855	6	100.0	18	2	US-08-951-648-18	Sequence 18, Appl	C 928	6	100.0	18	3	US-09-280-409-117	Sequence 117, App
C 856	6	100.0	18	2	US-08-951-648-22	Sequence 22, Appl	C 929	6	100.0	18	3	US-09-280-409-129	Sequence 129, App
C 857	6	100.0	18	2	US-08-840-344-1	Sequence 1, Appli	930	6	100.0	18	3	US-08-953-171-20	Sequence 20, Appl
C 858	6	100.0	18	2	US-08-256-426B-46	Sequence 46, Appl	C 931	6	100.0	18	3	US-09-044-908-72	Sequence 72, Appl
C 859	6	100.0	18	2	US-08-256-426B-98	Sequence 98, Appl	C 932	6	100.0	18	3	US-09-289-466-80	Sequence 80, Appl
C 860	6	100.0	18	2	US-08-754-282B-8	Sequence 8, Appli	C 933	6	100.0	18	3	US-09-289-466-81	Sequence 81, Appl
C 861	6	100.0	18	2	US-08-861-096A-45	Sequence 45, Appl	C 934	6	100.0	18	3	US-09-079-587-28	Sequence 28, Appl
C 862	6	100.0	18	2	US-09-177-909-12	Sequence 12, Appl	C 935	6	100.0	18	3	US-09-174-437-18	Sequence 18, Appl
C 863	6	100.0	18	2	US-09-177-909-15	Sequence 15, Appl	936	6	100.0	18	3	US-09-174-437-22	Sequence 22, Appl
C 864	6	100.0	18	2	US-08-926-492-8	Sequence 8, Appli	C 937	6	100.0	18	3	US-09-195-666A-31	Sequence 31, Appl
C 865	6	100.0	18	2	US-09-156-425-17	Sequence 17, Appl	938	6	100.0	18	3	US-09-195-666A-32	Sequence 32, Appl
C 866	6	100.0	18	2	US-09-161-015-42	Sequence 42, Appl	939	6	100.0	18	3	US-09-195-666A-33	Sequence 33, Appl
C 867	6	100.0	18	2	US-09-161-015-42	Sequence 42, Appl	C 940	6	100.0	18	3	US-08-949-004-11	Sequence 11, Appl
C 868	6	100.0	18	2	US-09-197-008-34	Sequence 34, Appl	941	6	100.0	18	3	US-09-213-719-9	Sequence 9, Appli
C 869	6	100.0	18	2	US-09-205-860-17	Sequence 17, Appl	942	6	100.0	18	3	US-09-213-719-10	Sequence 10, Appl
C 870	6	100.0	18	2	US-08-466-860-54	Sequence 54, Appl	C 943	6	100.0	18	3	US-09-487-444-38	Sequence 38, Appl
C 871	6	100.0	18	2	US-08-816-155B-28	Sequence 28, Appl	C 944	6	100.0	18	3	US-09-286-407-27	Sequence 27, Appl
C 872	6	100.0	18	2	US-08-476-866-11	Sequence 11, Appl	945	6	100.0	18	3	US-09-286-407-31	Sequence 31, Appl
C 873	6	100.0	18	2	US-09-256-496-10	Sequence 10, Appl	946	6	100.0	18	3	US-09-193-792-16	Sequence 16, Appl
C 874	6	100.0	18	3	US-08-489-072A-4	Sequence 4, Appli	947	6	100.0	18	3	US-09-038-073-2490	Sequence 2490, Ap
C 875	6	100.0	18	3	US-09-156-253-10	Sequence 10, Appl	948	6	100.0	18	3	US-09-038-073-2491	Sequence 2491, Ap
C 876	6	100.0	18	3	US-09-156-253-13	Sequence 13, Appl	949	6	100.0	18	3	US-09-038-073-2492	Sequence 2492, Ap
C 877	6	100.0	18	3	US-08-815-809-13	Sequence 13, Appl	950	6	100.0	18	3	US-09-038-073-2506	Sequence 2506, Ap
C 878	6	100.0	18	3	US-09-138-024-7	Sequence 7, Appli	951	6	100.0	18	3	US-09-038-073-2507	Sequence 2507, Ap
C 879	6	100.0	18	3	US-09-161-244-59	Sequence 59, Appl	952	6	100.0	18	3	US-09-038-073-2542	Sequence 2542, Ap
C 880	6	100.0	18	3	US-09-161-244-60	Sequence 60, Appl	953	6	100.0	18	3	US-09-038-073-2667	Sequence 2667, Ap
C 881	6	100.0	18	3	US-09-106-038A-38	Sequence 38, Appl	C 954	6	100.0	18	3	US-09-038-073-2686	Sequence 2686, Ap
C 882	6	100.0	18	3	US-09-106-038A-39	Sequence 39, Appl	C 955	6	100.0	18	3	US-09-071-433-4	Sequence 4, Appli
C 883	6	100.0	18	3	US-09-106-038A-45	Sequence 45, Appl	C 956	6	100.0	18	3	US-09-071-433-5	Sequence 5, Appli
C 884	6	100.0	18	3	US-09-106-038A-46	Sequence 46, Appl	957	6	100.0	18	3	US-09-071-433-59	Sequence 59, Appl
C 885	6	100.0	18	3	US-09-106-038A-74	Sequence 74, Appl	958	6	100.0	18	3	US-09-071-433-82	Sequence 82, Appl
C 886	6	100.0	18	3	US-09-106-038A-86	Sequence 86, Appl	959	6	100.0	18	3	US-09-071-433-83	Sequence 83, Appl
C 887	6	100.0	18	3	US-09-106-038A-87	Sequence 87, Appl	C 960	6	100.0	18	3	US-08-809-523-55	Sequence 55, Appl
C 888	6	100.0	18	3	US-09-208-921-22	Sequence 22, Appl	C 961	6	100.0	18	3	US-08-809-523-55	Sequence 55, Appl
C 889	6	100.0	18	3	US-09-090-947-16	Sequence 16, Appl	C 962	6	100.0	18	3	US-08-276-776-54	Sequence 54, Appl
C 890	6	100.0	18	3	US-09-255-911-24	Sequence 24, Appl	963	6	100.0	18	3	US-08-471-209-54	Sequence 54, Appl
C 891	6	100.0	18	3	US-08-276-968A-23	Sequence 23, Appl	964	6	100.0	18	3	US-08-931-789A-128	Sequence 128, App
C 892	6	100.0	18	3	US-08-870-815-11	Sequence 11, Appl	C 965	6	100.0	18	3	US-09-313-932-12	Sequence 12, Appl
C 893	6	100.0	18	3	US-09-358-381-15	Sequence 15, Appl	C 966	6	100.0	18	3	US-09-018-584A-130	Sequence 130, App
C 894	6	100.0	18	3	US-09-338-964-22	Sequence 22, Appl	967	6	100.0	18	3	US-09-632-580A-18	Sequence 18, Appl
C 895	6	100.0	18	3	US-09-338-964-26	Sequence 26, Appl	C 968	6	100.0	18	3	US-09-377-309-2	Sequence 2, Appli
C 896	6	100.0	18	3	US-09-156-807-15	Sequence 15, Appl	C 969	6	100.0	18	3	US-09-268-140-40	Sequence 40, Appl
C 897	6	100.0	18	3	US-09-044-946-72	Sequence 72, Appl	C 970	6	100.0	18	3	US-09-230-804-22	Sequence 22, Appl
C 898	6	100.0	18	3	US-09-344-520-45	Sequence 45, Appl	C 971	6	100.0	18	3	US-09-171-945-108	Sequence 108, App
C 899	6	100.0	18	3	US-08-745-892-4	Sequence 4, Appli	C 972	6	100.0	18	3	US-09-630-706-15	Sequence 15, Appl
C 900	6	100.0	18	3	US-09-256-492-18	Sequence 18, Appl	C 973	6	100.0	18	3	US-09-630-706-67	Sequence 67, Appl
C 901	6	100.0	18	3	US-09-339-993-14	Sequence 14, Appl	974	6	100.0	18	3	US-09-461-697-02	Sequence 62, Appl
C 902	6	100.0	18	3	US-09-048-505-8	Sequence 8, Appli	975	6	100.0	18	3	US-09-382-459-39	Sequence 39, Appl
C 903	6	100.0	18	3	US-09-289-377-47	Sequence 47, Appl	976	6	100.0	18	3	US-09-036-172-7	Sequence 7, Appli
												US-09-577-902-16	Sequence 16, Appl

c 977	6	100.0	18	3	US-08-471-971-55	Sequence 55, Appl	c1050	6	100.0	18	4	US-09-422-978-8463	Sequence 8463, Ap
978	6	100.0	18	4	US-08-489-071A-4	Sequence 4, Appl	c1051	6	100.0	18	4	US-09-422-978-8784	Sequence 8784, Ap
979	6	100.0	18	4	US-09-105-542A-22	Sequence 22, Appl	c1052	6	100.0	18	4	US-09-422-978-9263	Sequence 9263, Ap
c 980	6	100.0	18	4	US-09-564-805-57	Sequence 57, Appl	c1053	6	100.0	18	4	US-09-422-978-9350	Sequence 9350, Ap
c 981	6	100.0	18	4	US-09-496-694B-36	Sequence 36, Appl	c1054	6	100.0	18	4	US-09-422-978-9588	Sequence 9588, Ap
c 982	6	100.0	18	4	US-09-496-694B-40	Sequence 40, Appl	c1055	6	100.0	18	4	US-09-422-978-9634	Sequence 9634, Ap
c 983	6	100.0	18	4	US-09-496-694B-76	Sequence 76, Appl	c1056	6	100.0	18	4	US-09-422-978-10934	Sequence 10934, A
c 984	6	100.0	18	4	US-09-496-694B-80	Sequence 80, Appl	c1057	6	100.0	18	4	US-09-422-978-11381	Sequence 11381, A
c 985	6	100.0	18	4	US-09-496-694B-127	Sequence 127, App	c1058	6	100.0	18	4	US-09-422-978-11672	Sequence 11672, A
c 986	6	100.0	18	4	US-09-062-451-128	Sequence 128, App	c1059	6	100.0	18	4	US-09-230-652-69	Sequence 69, Appl
c 987	6	100.0	18	4	US-08-584-040-2993	Sequence 2993, Ap	c1060	6	100.0	18	4	US-09-509-654-1	Sequence 1, Appl
c 988	6	100.0	18	4	US-08-584-040-3033	Sequence 3033, Ap	c1061	6	100.0	18	4	US-08-894-454-4	Sequence 4, Appl
c 989	6	100.0	18	4	US-08-584-040-3077	Sequence 3077, Ap	c1062	6	100.0	18	4	US-09-118-464-18	Sequence 18, Appl
c 990	6	100.0	18	4	US-08-584-040-4475	Sequence 4475, Ap	c1063	6	100.0	18	4	US-09-254-776B-17	Sequence 17, Appl
c 991	6	100.0	18	4	US-08-584-040-4476	Sequence 4476, Ap	c1064	6	100.0	18	4	US-09-686-055A-18	Sequence 18, Appl
c 992	6	100.0	18	4	US-08-584-040-4481	Sequence 4481, Ap	c1065	6	100.0	18	4	US-09-686-055A-22	Sequence 22, Appl
c 993	6	100.0	18	4	US-08-584-040-4492	Sequence 4492, Ap	c1066	6	100.0	18	4	US-09-371-772B-1421	Sequence 1421, Ap
c 994	6	100.0	18	4	US-08-584-040-6240	Sequence 6240, Ap	c1067	6	100.0	18	4	US-09-371-772B-1461	Sequence 1461, Ap
c 995	6	100.0	18	4	US-08-584-040-6250	Sequence 6250, Ap	c1068	6	100.0	18	4	US-09-371-772B-1504	Sequence 1504, Ap
c 996	6	100.0	18	4	US-08-584-040-6278	Sequence 6278, Ap	c1069	6	100.0	18	4	US-09-371-772B-2188	Sequence 2188, Ap
c 997	6	100.0	18	4	US-08-584-040-8298	Sequence 8298, Ap	c1070	6	100.0	18	4	US-09-371-772B-2189	Sequence 2189, Ap
c 998	6	100.0	18	4	US-08-584-040-8398	Sequence 8398, Ap	c1071	6	100.0	18	4	US-09-371-772B-2194	Sequence 2194, Ap
c 999	6	100.0	18	4	US-09-341-587-9	Sequence 9, Appl	c1072	6	100.0	18	4	US-09-371-772B-2205	Sequence 2205, Ap
1000	6	100.0	18	4	US-08-679-645-1155	Sequence 1155, Ap	c1073	6	100.0	18	4	US-09-371-772B-3002	Sequence 3002, Ap
1001	6	100.0	18	4	US-08-679-645-1185	Sequence 1185, Ap	c1074	6	100.0	18	4	US-09-371-772B-3009	Sequence 3009, Ap
1002	6	100.0	18	4	US-08-679-645-1193	Sequence 1193, Ap	c1075	6	100.0	18	4	US-09-371-772B-3036	Sequence 3036, Ap
1003	6	100.0	18	4	US-08-679-645-1213	Sequence 1213, Ap	c1076	6	100.0	18	4	US-09-371-772B-3956	Sequence 3956, Ap
1004	6	100.0	18	4	US-09-179-298-3	Sequence 3, Appl	c1077	6	100.0	18	4	US-09-371-772B-4054	Sequence 4054, Ap
1005	6	100.0	18	4	US-09-026-601-18	Sequence 18, Appl	c1078	6	100.0	18	4	US-09-733-444-22	Sequence 22, Appl
1006	6	100.0	18	4	US-09-482-180A-13	Sequence 13, Appl	c1079	6	100.0	18	4	US-09-618-166-60	Sequence 60, Appl
1007	6	100.0	18	4	US-09-123-030-17	Sequence 17, Appl	c1080	6	100.0	18	4	US-09-640-198D-14	Sequence 14, Appl
1008	6	100.0	18	4	US-09-504-358-30	Sequence 30, Appl	c1081	6	100.0	18	4	US-09-640-198D-20	Sequence 20, Appl
1009	6	100.0	18	4	US-09-404-056-7	Sequence 7, Appl	c1082	6	100.0	18	4	US-09-640-198D-22	Sequence 22, Appl
1010	6	100.0	18	4	US-09-465-353-2	Sequence 2, Appl	c1083	6	100.0	18	4	US-09-289-198-128	Sequence 128, App
1011	6	100.0	18	4	US-09-635-705-31	Sequence 31, Appl	c1084	6	100.0	18	4	US-09-589-560B-38	Sequence 38, Appl
1012	6	100.0	18	4	US-09-635-705-32	Sequence 32, Appl	c1085	6	100.0	18	4	US-09-091-134-4	Sequence 4, Appl
1013	6	100.0	18	4	US-09-167-109-19	Sequence 19, Appl	c1086	6	100.0	18	4	US-09-663-834A-15	Sequence 15, Appl
1014	6	100.0	18	4	US-09-167-109-124	Sequence 124, App	c1087	6	100.0	18	4	US-09-663-834A-35	Sequence 35, Appl
1015	6	100.0	18	4	US-09-442-143A-44	Sequence 44, Appl	c1088	6	100.0	18	4	US-09-639-667-10	Sequence 10, Appl
1016	6	100.0	18	4	US-09-387-341-117	Sequence 117, App	c1089	6	100.0	18	4	US-09-639-667-16	Sequence 16, Appl
1017	6	100.0	18	4	US-09-387-341-185	Sequence 185, App	c1090	6	100.0	18	4	US-09-639-667-18	Sequence 18, Appl
1018	6	100.0	18	4	US-09-268-544B-34	Sequence 34, Appl	c1091	6	100.0	18	4	US-09-639-667-7	Sequence 7, Appl
1019	6	100.0	18	4	US-08-182-967-4	Sequence 4, Appl	c1092	6	100.0	18	4	US-09-927-842-8	Sequence 8, Appl
1020	6	100.0	18	4	US-09-598-326-128	Sequence 128, App	c1093	6	100.0	18	4	US-09-854-799-39	Sequence 39, Appl
1021	6	100.0	18	4	US-09-634-858A-31	Sequence 31, Appl	c1094	6	100.0	18	4	US-09-429-755-128	Sequence 128, App
1022	6	100.0	18	4	US-09-634-858A-32	Sequence 32, Appl	c1095	6	100.0	18	4	US-09-614-748A-31	Sequence 31, Appl
1023	6	100.0	18	4	US-09-402-776-55	Sequence 55, Appl	c1096	6	100.0	18	4	US-09-614-748A-32	Sequence 32, Appl
1024	6	100.0	18	4	US-09-261-115-13	Sequence 13, Appl	c1097	6	100.0	18	4	US-09-548-797B-50	Sequence 50, Appl
1025	6	100.0	18	4	US-09-261-115-14	Sequence 14, Appl	c1098	6	100.0	18	4	US-09-548-797B-82	Sequence 82, Appl
1026	6	100.0	18	4	US-09-954-314-30	Sequence 30, Appl	c1099	6	100.0	18	4	US-09-548-797B-84	Sequence 84, Appl
1027	6	100.0	18	4	US-09-322-409-17	Sequence 17, Appl	c1100	6	100.0	18	5	PCT-US91-08525-39	Sequence 39, Appl
1028	6	100.0	18	4	US-09-451-527-17	Sequence 17, Appl	c1101	6	100.0	18	5	PCT-US91-05794-16	Sequence 16, Appl
1029	6	100.0	18	4	US-09-565-063-3	Sequence 3, Appl	c1102	6	100.0	18	5	PCT-US93-08849A-55	Sequence 55, Appl
1030	6	100.0	18	4	US-09-435-321-9	Sequence 9, Appl	c1103	6	100.0	18	5	PCT-US93-08849A-55	Sequence 55, Appl
1031	6	100.0	18	4	US-09-586-376-17	Sequence 17, Appl	c1104	6	100.0	18	5	PCT-US93-12600-7	Sequence 7, Appl
1032	6	100.0	18	4	US-09-586-376-18	Sequence 18, Appl	c1105	6	100.0	18	5	PCT-US94-12947A-84	Sequence 84, Appl
1033	6	100.0	18	4	US-09-266-965-87	Sequence 87, Appl	c1106	6	100.0	18	5	PCT-US94-12947A-85	Sequence 85, Appl
1034	6	100.0	18	4	US-09-645-747A-70	Sequence 70, Appl	c1107	6	100.0	19	1	US-07-767-135-4	Sequence 4, Appl
1035	6	100.0	18	4	US-09-661-536A-25	Sequence 25, Appl	c1108	6	100.0	19	1	US-07-991-855-26	Sequence 26, Appl
1036	6	100.0	18	4	US-09-888-341-3	Sequence 3, Appl	c1109	6	100.0	19	1	US-07-991-855-68	Sequence 68, Appl
1037	6	100.0	18	4	US-09-573-322-7	Sequence 7, Appl	c1110	6	100.0	19	1	US-08-031-143B-58	Sequence 58, Appl
1038	6	100.0	18	4	US-09-585-228-19	Sequence 19, Appl	c1111	6	100.0	19	1	US-08-031-143B-65	Sequence 65, Appl
1039	6	100.0	18	4	US-09-311-784A-128	Sequence 128, App	c1112	6	100.0	19	1	US-08-222-177A-330	Sequence 330, App
1040	6	100.0	18	4	US-08-869-927C-31	Sequence 31, Appl	c1113	6	100.0	19	1	US-07-936-110-2	Sequence 2, Appl
1041	6	100.0	18	4	US-08-869-927C-32	Sequence 32, Appl	c1114	6	100.0	19	1	US-08-631-200-20	Sequence 20, Appl
1042	6	100.0	18	4	US-09-422-978-4431	Sequence 4431, Ap	c1115	6	100.0	19	1	US-08-631-200-39	Sequence 39, Appl
1043	6	100.0	18	4	US-09-422-978-4620	Sequence 4620, Ap	c1116	6	100.0	19	1	US-08-355-892-66	Sequence 66, Appl
1044	6	100.0	18	4	US-09-422-978-4723	Sequence 4723, Ap	c1117	6	100.0	19	1	US-08-086-630C-138	Sequence 138, App
1045	6	100.0	18	4	US-09-422-978-4839	Sequence 4839, Ap	c1118	6	100.0	19	1	US-08-630-592-14	Sequence 14, Appl
1046	6	100.0	18	4	US-09-422-978-5602	Sequence 5602, Ap	c1119	6	100.0	19	1	US-08-714-991-14	Sequence 14, Appl
1047	6	100.0	18	4	US-09-422-978-6116	Sequence 6116, Ap	c1120	6	100.0	19	1	US-08-777-918-2	Sequence 2, Appl
1048	6	100.0	18	4	US-09-422-978-7284	Sequence 7284, Ap	c1121	6	100.0	19	1	US-08-912-976-17	Sequence 17, Appl
1049	6	100.0	18	4	US-09-422-978-7795	Sequence 7795, Ap	c1122	6	100.0	19	1	US-08-829-553-20	Sequence 20, Appl

c1123 6 100.0 19 1 US-08-829-553-39 Sequence 39, Appl  
c1124 6 100.0 19 2 US-08-332-766A-87 Sequence 87, Appl  
c1125 6 100.0 19 2 US-08-117-953-98 Sequence 98, Appl  
c1126 6 100.0 19 2 US-08-117-953-610 Sequence 610, App  
c1127 6 100.0 19 2 US-08-450-9058-122 Sequence 122, App  
c1128 6 100.0 19 2 US-08-922-267A-20 Sequence 20, Appl  
c1129 6 100.0 19 2 US-08-922-267A-39 Sequence 39, Appl  
c1130 6 100.0 19 2 US-08-464-073-7 Sequence 7, Appl  
c1131 6 100.0 19 2 US-08-773-251-20 Sequence 20, Appl  
c1132 6 100.0 19 2 US-08-936-707A-20 Sequence 20, Appl  
c1133 6 100.0 19 2 US-08-936-707A-39 Sequence 39, Appl  
c1134 6 100.0 19 2 US-08-936-706A-20 Sequence 20, Appl  
c1135 6 100.0 19 2 US-08-936-706A-39 Sequence 39, Appl  
c1136 6 100.0 19 2 US-08-899-811-4 Sequence 4, Appl  
c1137 6 100.0 19 2 US-08-635-062-15 Sequence 15, Appl  
c1138 6 100.0 19 2 US-08-460-751-11 Sequence 11, Appl  
c1139 6 100.0 19 2 US-08-460-751-32 Sequence 32, Appl  
c1140 6 100.0 19 2 US-08-611-280-6 Sequence 6, Appl  
c1141 6 100.0 19 2 US-08-775-009-25 Sequence 25, Appl  
c1142 6 100.0 19 2 US-08-767-979-10 Sequence 10, Appl  
c1143 6 100.0 19 2 US-08-718-538-17 Sequence 17, Appl  
c1144 6 100.0 19 2 US-08-299-074A-40 Sequence 40, Appl  
c1145 6 100.0 19 2 US-08-428-252-7 Sequence 7, Appl  
c1146 6 100.0 19 2 US-07-695-201B-9 Sequence 9, Appl  
c1147 6 100.0 19 3 US-08-937-580-8 Sequence 8, Appl  
c1148 6 100.0 19 3 US-08-589-939-24 Sequence 24, Appl  
c1149 6 100.0 19 3 US-08-646-789A-45 Sequence 45, Appl  
c1150 6 100.0 19 3 US-08-750-064-19 Sequence 19, Appl  
c1151 6 100.0 19 3 US-08-416-516A-7 Sequence 7, Appl  
c1152 6 100.0 19 3 US-09-248-203-20 Sequence 20, Appl  
c1153 6 100.0 19 3 US-09-248-203-39 Sequence 39, Appl  
c1154 6 100.0 19 3 US-07-982-759F-122 Sequence 122, App  
c1155 6 100.0 19 3 US-09-132-652-27 Sequence 27, Appl  
c1156 6 100.0 19 3 US-09-032-365A-26 Sequence 26, Appl  
c1157 6 100.0 19 3 US-08-953-171-27 Sequence 27, Appl  
c1158 6 100.0 19 3 US-08-860-635A-3 Sequence 3, Appl  
c1159 6 100.0 19 3 US-09-135-021-60 Sequence 60, Appl  
c1160 6 100.0 19 3 US-08-470-533-9 Sequence 9, Appl  
c1161 6 100.0 19 3 US-09-295-026-10 Sequence 10, Appl  
c1162 6 100.0 19 3 US-09-050-159-3 Sequence 3, Appl  
c1163 6 100.0 19 3 US-09-406-071-20 Sequence 20, Appl  
c1164 6 100.0 19 3 US-09-406-071-39 Sequence 39, Appl  
c1165 6 100.0 19 3 US-09-399-773-40 Sequence 40, Appl  
c1166 6 100.0 19 3 US-09-195-940-6 Sequence 6, Appl  
c1167 6 100.0 19 3 US-09-338-907-465 Sequence 465, App  
c1168 6 100.0 19 3 US-08-637-732A-20 Sequence 20, Appl  
c1169 6 100.0 19 3 US-09-268-140-18 Sequence 18, Appl  
c1170 6 100.0 19 3 US-09-135-020-62 Sequence 62, Appl  
c1171 6 100.0 19 3 US-09-135-010A-62 Sequence 62, Appl  
c1172 6 100.0 19 3 US-08-803-346-49 Sequence 49, Appl  
c1173 6 100.0 19 3 US-09-316-447A-3 Sequence 3, Appl  
c1174 6 100.0 19 3 US-09-336-039-8 Sequence 8, Appl  
c1175 6 100.0 19 4 US-09-414-828A-13 Sequence 13, Appl  
c1176 6 100.0 19 4 US-09-721-822A-11 Sequence 11, Appl  
c1177 6 100.0 19 4 US-09-281-476-3 Sequence 3, Appl  
c1178 6 100.0 19 4 US-09-444-871-62 Sequence 62, Appl  
c1179 6 100.0 19 4 US-09-457-708-7 Sequence 7, Appl  
c1180 6 100.0 19 4 US-09-457-708-19 Sequence 19, Appl  
c1181 6 100.0 19 4 US-09-564-805-157 Sequence 157, App  
c1182 6 100.0 19 4 US-09-564-805-166 Sequence 166, App  
c1183 6 100.0 19 4 US-09-228-324A-46 Sequence 46, App  
c1184 6 100.0 19 4 US-09-218-207-465 Sequence 465, App  
c1185 6 100.0 19 4 US-09-270-140A-79 Sequence 79, Appl  
c1186 6 100.0 19 4 US-09-270-140A-80 Sequence 80, Appl  
c1187 6 100.0 19 4 US-09-270-140A-81 Sequence 81, Appl  
c1188 6 100.0 19 4 US-09-562-466-6 Sequence 6, Appl  
c1189 6 100.0 19 4 US-09-214-555B-9 Sequence 9, Appl  
c1190 6 100.0 19 4 US-09-182-145-141 Sequence 141, App  
c1191 6 100.0 19 4 US-08-937-993-41 Sequence 41, Appl  
c1192 6 100.0 19 4 US-09-115-407-10 Sequence 10, Appl  
c1193 6 100.0 19 4 US-09-115-407-11 Sequence 11, Appl  
c1194 6 100.0 19 4 US-09-597-735-62 Sequence 62, Appl  
c1195 6 100.0 19 4 US-09-144-367-49 Sequence 49, Appl

19 4 US-09-444-295-62 Sequence 62, Appl  
19 4 US-09-727-532A-3 Sequence 3, Appl  
19 4 US-09-470-443-11 Sequence 11, Appl  
19 4 US-09-597-732-62 Sequence 62, Appl  
19 4 US-09-531-000-8 Sequence 8, Appl  
19 4 US-09-569-193A-3 Sequence 3, Appl  
19 4 US-09-052-753B-10 Sequence 10, Appl  
19 4 US-09-086-663A-44 Sequence 44, Appl  
19 4 US-09-086-663A-45 Sequence 45, Appl  
19 4 US-09-422-978-3976 Sequence 3976, App  
19 4 US-09-422-978-4111 Sequence 4111, App  
19 4 US-09-422-978-4211 Sequence 4211, App  
19 4 US-09-422-978-4232 Sequence 4232, App  
19 4 US-09-422-978-4457 Sequence 4457, App  
19 4 US-09-422-978-4626 Sequence 4626, App  
19 4 US-09-422-978-4685 Sequence 4685, App  
19 4 US-09-422-978-4788 Sequence 4788, App  
19 4 US-09-422-978-4914 Sequence 4914, App  
19 4 US-09-422-978-4917 Sequence 4917, App  
19 4 US-09-422-978-5041 Sequence 5041, App  
19 4 US-09-422-978-5077 Sequence 5077, App  
19 4 US-09-422-978-6128 Sequence 6128, App  
19 4 US-09-422-978-6231 Sequence 6231, App  
19 4 US-09-422-978-6253 Sequence 6253, App  
19 4 US-09-422-978-6314 Sequence 6314, App  
19 4 US-09-422-978-7125 Sequence 7125, App  
19 4 US-09-422-978-7125 Sequence 7125, App  
19 4 US-09-422-978-7170 Sequence 7170, App  
19 4 US-09-422-978-7289 Sequence 7289, App  
19 4 US-09-422-978-7584 Sequence 7584, App  
19 4 US-09-422-978-7629 Sequence 7629, App  
19 4 US-09-422-978-8059 Sequence 8059, App  
19 4 US-09-422-978-9017 Sequence 9017, App  
19 4 US-09-422-978-9332 Sequence 9332, App  
19 4 US-09-422-978-9339 Sequence 9339, App  
19 4 US-09-422-978-9455 Sequence 9455, App  
19 4 US-09-422-978-9455 Sequence 9455, App  
19 4 US-09-422-978-10629 Sequence 10629, A  
19 4 US-09-422-978-10950 Sequence 10950, A  
19 4 US-09-422-978-11455 Sequence 11455, A  
19 4 US-09-402-266B-13 Sequence 13, Appl  
19 4 US-09-950-046A-7 Sequence 7, Appl  
19 4 US-09-950-046A-19 Sequence 19, Appl  
19 4 US-09-625-972-8 Sequence 8, Appl  
19 4 US-09-597-731-62 Sequence 62, Appl  
19 4 US-08-968-208-9 Sequence 9, Appl  
19 4 US-09-814-986-20 Sequence 20, Appl  
19 4 US-09-814-986-39 Sequence 39, Appl  
19 4 US-09-586-193A-135 Sequence 135, App  
19 4 US-09-927-842-6 Sequence 6, Appl  
19 4 US-09-927-842-9 Sequence 9, Appl  
19 4 US-09-495-714C-38 Sequence 38, Appl  
19 4 US-09-672-717-98 Sequence 98, Appl  
19 4 US-09-548-797B-53 Sequence 53, Appl  
19 4 US-09-548-797B-67 Sequence 57, Appl  
19 5 PCT-US94-02891-58 Sequence 58, Appl  
19 5 PCT-US94-02891-65 Patent No. 5489507  
19 6 5489507-8 Patent No. 5489507  
19 6 5489507-10 Patent No. 5489507  
20 1 US-07-767-135-7 Sequence 7, Appl  
20 1 US-07-613-083B-3 Sequence 3, Appl  
20 1 US-07-922-723A-32 Sequence 32, Appl  
20 1 US-07-799-828C-32 Sequence 32, Appl  
20 1 US-07-969-931-12 Sequence 12, Appl  
20 1 US-08-286-889-30 Sequence 30, Appl  
20 1 US-07-855-417A-12 Sequence 12, Appl  
20 1 US-08-126-660-1 Sequence 1, Appl  
20 1 US-08-136-811-24 Sequence 24, Appl  
20 1 US-08-203-198-15 Sequence 15, Appl  
20 1 US-08-063-167A-33 Sequence 33, Appl  
20 1 US-08-063-167A-64 Sequence 64, Appl  
20 1 US-08-031-143B-14 Sequence 14, Appl  
20 1 US-07-872-678A-14 Sequence 14, Appl  
20 1 US-07-872-678A-23 Sequence 23, Appl  
20 1 US-07-872-678A-25 Sequence 25, Appl

1269	6	100.0	20	1	US-07-977-284A-97	Sequence 97, Appl	cl1342	6	100.0	20	1	US-08-546-130A-16	Sequence 16, Appl
1270	6	100.0	20	1	US-07-977-284A-116	Sequence 116, App	cl1343	6	100.0	20	1	US-08-835-770-24	Sequence 24, Appl
1271	6	100.0	20	1	US-07-977-284A-118	Sequence 118, App	cl1344	6	100.0	20	1	US-08-828-731-24	Sequence 24, Appl
1272	6	100.0	20	1	US-08-314-582-1	Sequence 1, Appl	cl1345	6	100.0	20	1	US-08-374-641-44	Sequence 44, Appl
1273	6	100.0	20	1	US-08-250-856A-15	Sequence 15, Appl	cl1346	6	100.0	20	1	US-08-915-214-39	Sequence 39, Appl
1274	6	100.0	20	1	US-07-991-199D-11	Sequence 11, Appl	cl1347	6	100.0	20	1	US-08-915-214-40	Sequence 40, Appl
1275	6	100.0	20	1	US-08-222-177A-69	Sequence 69, Appl	cl1348	6	100.0	20	1	US-08-912-976-8	Sequence 8, Appl
1276	6	100.0	20	1	US-08-222-177A-333	Sequence 333, App	cl1349	6	100.0	20	1	US-08-912-976-14	Sequence 14, Appl
1277	6	100.0	20	1	US-08-222-177A-368	Sequence 368, App	cl1350	6	100.0	20	1	US-08-925-444-4	Sequence 4, Appl
1278	6	100.0	20	1	US-08-293-086-11	Sequence 11, Appl	cl1351	6	100.0	20	1	US-08-605-672-30	Sequence 30, Appl
1279	6	100.0	20	1	US-08-293-086-12	Sequence 12, Appl	cl1352	6	100.0	20	1	US-08-605-672-76	Sequence 76, Appl
1280	6	100.0	20	1	US-08-403-388-9	Sequence 9, Appl	cl1353	6	100.0	20	1	US-08-592-126-19	Sequence 19, Appl
1281	6	100.0	20	1	US-08-007-997A-33	Sequence 33, Appl	cl1354	6	100.0	20	2	US-08-619-542B-73	Sequence 73, Appl
1282	6	100.0	20	1	US-08-007-997A-64	Sequence 64, Appl	cl1355	6	100.0	20	2	US-08-411-098-37	Sequence 37, Appl
1283	6	100.0	20	1	US-08-401-512-21	Sequence 21, Appl	cl1356	6	100.0	20	2	US-08-482-293A-30	Sequence 30, Appl
1284	6	100.0	20	1	US-08-068-945A-44	Sequence 44, Appl	cl1357	6	100.0	20	2	US-08-482-293A-76	Sequence 76, Appl
1285	6	100.0	20	1	US-08-477-270-27	Sequence 27, Appl	cl1358	6	100.0	20	2	US-08-267-803B-48	Sequence 48, Appl
1286	6	100.0	20	1	US-08-460-344-56	Sequence 56, Appl	cl1359	6	100.0	20	2	US-08-267-803B-49	Sequence 49, Appl
1287	6	100.0	20	1	US-08-290-936-7	Sequence 7, Appl	cl1360	6	100.0	20	2	US-08-943-363-30	Sequence 30, Appl
1288	6	100.0	20	1	US-08-133-011-161	Sequence 161, App	cl1361	6	100.0	20	2	US-08-943-363-76	Sequence 76, Appl
1289	6	100.0	20	1	US-08-463-363-1	Sequence 1, Appl	cl1362	6	100.0	20	2	US-08-639-501-26	Sequence 26, Appl
1290	6	100.0	20	1	US-08-463-364-1	Sequence 1, Appl	cl1363	6	100.0	20	2	US-08-481-793-21	Sequence 21, Appl
1291	6	100.0	20	1	US-08-339-912-4	Sequence 4, Appl	cl1364	6	100.0	20	2	US-08-753-979A-28	Sequence 28, Appl
1292	6	100.0	20	1	US-08-555-394-5	Sequence 5, Appl	cl1365	6	100.0	20	2	US-08-753-979A-37	Sequence 37, Appl
1293	6	100.0	20	1	US-08-229-145-18	Sequence 18, Appl	cl1366	6	100.0	20	2	US-08-757-653-153	Sequence 153, App
1294	6	100.0	20	1	US-08-480-784-9	Sequence 9, Appl	cl1367	6	100.0	20	2	US-08-440-740A-33	Sequence 33, Appl
1295	6	100.0	20	1	US-08-255-892-53	Sequence 53, Appl	cl1368	6	100.0	20	2	US-08-440-740A-64	Sequence 64, Appl
1296	6	100.0	20	1	US-08-255-892-81	Sequence 81, Appl	cl1369	6	100.0	20	2	US-08-117-952-32	Sequence 32, Appl
1297	6	100.0	20	1	US-08-133-598A-56	Sequence 56, Appl	cl1370	6	100.0	20	2	US-08-117-952-67	Sequence 67, Appl
1298	6	100.0	20	1	US-08-089-996-7	Sequence 7, Appl	cl1371	6	100.0	20	2	US-08-117-952-119	Sequence 119, App
1299	6	100.0	20	1	US-08-089-996-35	Sequence 35, Appl	cl1372	6	100.0	20	2	US-08-117-952-237	Sequence 237, App
1300	6	100.0	20	1	US-08-089-996-38	Sequence 38, Appl	cl1373	6	100.0	20	2	US-08-117-952-367	Sequence 367, App
1301	6	100.0	20	1	US-08-535-230A-16	Sequence 16, Appl	cl1374	6	100.0	20	2	US-08-117-952-617	Sequence 617, App
1302	6	100.0	20	1	US-08-483-553-9	Sequence 9, Appl	cl1375	6	100.0	20	2	US-08-117-952-624	Sequence 624, App
1303	6	100.0	20	1	US-08-487-002-9	Sequence 9, Appl	cl1376	6	100.0	20	2	US-08-593-345B-12	Sequence 12, Appl
1304	6	100.0	20	1	US-08-485-602-86	Sequence 86, Appl	cl1377	6	100.0	20	2	US-08-551-692-6	Sequence 6, Appl
1305	6	100.0	20	1	US-08-588-821-39	Sequence 39, Appl	cl1378	6	100.0	20	2	US-08-808-474A-28	Sequence 28, Appl
1306	6	100.0	20	1	US-08-588-821-40	Sequence 40, Appl	cl1379	6	100.0	20	2	US-08-304-309-8	Sequence 8, Appl
1307	6	100.0	20	1	US-08-389-067-15	Sequence 15, Appl	cl1380	6	100.0	20	2	US-08-468-352-5	Sequence 5, Appl
1308	6	100.0	20	1	US-08-442-806-44	Sequence 44, Appl	cl1381	6	100.0	20	2	US-08-468-352-7	Sequence 7, Appl
1309	6	100.0	20	1	US-08-485-618-30	Sequence 30, Appl	cl1382	6	100.0	20	2	US-08-468-352-34	Sequence 34, Appl
1310	6	100.0	20	1	US-08-485-618-76	Sequence 76, Appl	cl1383	6	100.0	20	2	US-08-468-352-35	Sequence 35, Appl
1311	6	100.0	20	1	US-08-469-802B-30	Sequence 30, Appl	cl1384	6	100.0	20	2	US-08-887-365-29	Sequence 29, Appl
1312	6	100.0	20	1	US-08-469-802B-31	Sequence 31, Appl	cl1385	6	100.0	20	2	US-07-952-277A-32	Sequence 32, Appl
1313	6	100.0	20	1	US-08-483-554B-9	Sequence 9, Appl	cl1386	6	100.0	20	2	US-08-282-197C-13	Sequence 13, Appl
1314	6	100.0	20	1	US-08-483-011B-9	Sequence 9, Appl	cl1387	6	100.0	20	2	US-08-708-541A-18	Sequence 18, Appl
1315	6	100.0	20	1	US-08-484-152-72	Sequence 72, Appl	cl1388	6	100.0	20	2	US-08-889-296A-20	Sequence 20, Appl
1316	6	100.0	20	1	US-08-484-152-129	Sequence 129, App	cl1389	6	100.0	20	2	US-08-623-906A-27	Sequence 27, Appl
1317	6	100.0	20	1	US-08-658-578-9	Sequence 9, Appl	cl1390	6	100.0	20	2	US-08-623-906A-28	Sequence 28, Appl
1318	6	100.0	20	1	US-08-746-797-3	Sequence 3, Appl	cl1391	6	100.0	20	2	US-08-623-906A-37	Sequence 37, Appl
1319	6	100.0	20	1	US-08-746-797-6	Sequence 6, Appl	cl1392	6	100.0	20	2	US-08-623-906A-60	Sequence 60, Appl
1320	6	100.0	20	1	US-08-362-652-30	Sequence 30, Appl	cl1393	6	100.0	20	2	US-08-899-811-5	Sequence 5, Appl
1321	6	100.0	20	1	US-08-362-652-76	Sequence 76, Appl	cl1394	6	100.0	20	2	US-08-910-629A-61	Sequence 61, Appl
1322	6	100.0	20	1	US-08-147-843-3	Sequence 3, Appl	cl1395	6	100.0	20	2	US-08-478-178A-7	Sequence 7, Appl
1323	6	100.0	20	1	US-08-745-638-86	Sequence 86, Appl	cl1396	6	100.0	20	2	US-08-478-178A-35	Sequence 35, Appl
1324	6	100.0	20	1	US-08-602-203-3	Sequence 3, Appl	cl1397	6	100.0	20	2	US-08-478-178A-38	Sequence 38, Appl
1325	6	100.0	20	1	US-08-531-556-16	Sequence 16, Appl	cl1398	6	100.0	20	2	US-08-344-155C-33	Sequence 33, Appl
1326	6	100.0	20	1	US-08-531-556-17	Sequence 17, Appl	cl1399	6	100.0	20	2	US-08-344-155C-64	Sequence 64, Appl
1327	6	100.0	20	1	US-08-531-556-49	Sequence 49, Appl	cl1400	6	100.0	20	2	US-08-918-058-3	Sequence 3, Appl
1328	6	100.0	20	1	US-08-531-556-54	Sequence 54, Appl	cl1401	6	100.0	20	2	US-08-918-058-6	Sequence 6, Appl
1329	6	100.0	20	1	US-08-531-556-74	Sequence 74, Appl	cl1402	6	100.0	20	2	US-08-791-347-3	Sequence 3, Appl
1330	6	100.0	20	1	US-08-531-556-85	Sequence 85, Appl	cl1403	6	100.0	20	2	US-08-488-177-35	Sequence 35, Appl
1331	6	100.0	20	1	US-08-886-999-56	Sequence 56, Appl	cl1404	6	100.0	20	2	US-08-488-177-38	Sequence 38, Appl
1332	6	100.0	20	1	US-08-636-876-16	Sequence 16, Appl	cl1405	6	100.0	20	2	US-08-488-177-38	Sequence 9, Appl
1333	6	100.0	20	1	US-08-472-416-16	Sequence 16, Appl	cl1406	6	100.0	20	2	US-08-750-703-9	Sequence 24, Appl
1334	6	100.0	20	1	US-08-472-416-17	Sequence 17, Appl	cl1407	6	100.0	20	2	US-08-680-395-24	Sequence 24, Appl
1335	6	100.0	20	1	US-08-472-416-49	Sequence 49, Appl	cl1408	6	100.0	20	2	US-08-448-561-11	Sequence 11, Appl
1336	6	100.0	20	1	US-08-472-416-54	Sequence 54, Appl	cl1409	6	100.0	20	2	US-08-431-471-2	Sequence 2, Appl
1337	6	100.0	20	1	US-08-472-416-74	Sequence 74, Appl	cl1410	6	100.0	20	2	US-08-354-326-21	Sequence 21, Appl
1338	6	100.0	20	1	US-08-472-416-85	Sequence 85, Appl	cl1411	6	100.0	20	2	US-08-481-072A-7	Sequence 7, Appl
1339	6	100.0	20	1	US-08-927-387-3	Sequence 3, Appl	cl1412	6	100.0	20	2	US-08-481-072A-35	Sequence 35, Appl
1340	6	100.0	20	1	US-08-927-387-6	Sequence 6, Appl	cl1413	6	100.0	20	2	US-08-481-072A-36	Sequence 36, Appl
1341	6	100.0	20	1	US-08-723-447-9	Sequence 9, Appl	cl1414	6	100.0	20	2	US-08-912-129A-76	Sequence 76, Appl



1415 6 100.0 20 2 US-08-664-336-7 Sequence 7, Appli  
c1416 6 100.0 20 2 US-08-664-336-35 Sequence 38, Appl  
1417 6 100.0 20 2 US-08-664-336-35 Sequence 35, Appl  
1418 6 100.0 20 2 US-08-748-479-1 Sequence 1, Appli  
1419 6 100.0 20 2 US-08-964-725-12 Sequence 12, Appl  
1420 6 100.0 20 2 US-08-256-426B-97 Sequence 97, Appl  
c1421 6 100.0 20 2 US-08-256-426B-116 Sequence 116, App  
1422 6 100.0 20 2 US-08-256-426B-118 Sequence 118, Appl  
c1423 6 100.0 20 2 US-08-975-211-34 Sequence 34, Appl  
1424 6 100.0 20 2 US-08-756-806A-15 Sequence 15, Appl  
c1425 6 100.0 20 2 US-09-005-534-39 Sequence 39, Appl  
c1426 6 100.0 20 2 US-09-005-534-40 Sequence 40, Appl  
1427 6 100.0 20 2 US-09-044-506A-43 Sequence 43, Appl  
c1428 6 100.0 20 2 US-09-044-506A-46 Sequence 46, Appl  
1429 6 100.0 20 2 US-08-481-066A-7 Sequence 7, Appli  
c1430 6 100.0 20 2 US-08-481-066A-35 Sequence 35, Appl  
1431 6 100.0 20 2 US-08-481-066A-38 Sequence 38, Appl  
1432 6 100.0 20 2 US-08-687-080-19 Sequence 19, Appl  
c1433 6 100.0 20 2 US-08-848-840A-20 Sequence 20, Appl  
1434 6 100.0 20 2 US-09-048-804-2 Sequence 2, Appli  
c1435 6 100.0 20 2 US-09-048-804-10 Sequence 10, Appl  
1436 6 100.0 20 2 US-08-599-455B-35 Sequence 35, Appl  
c1437 6 100.0 20 2 US-08-888-982A-22 Sequence 22, Appl  
1438 6 100.0 20 2 US-08-888-982A-39 Sequence 39, Appl  
1439 6 100.0 20 2 US-08-888-982A-40 Sequence 40, Appl  
1440 6 100.0 20 2 US-08-888-982A-41 Sequence 41, Appl  
c1441 6 100.0 20 2 US-08-837-201C-16 Sequence 16, Appl  
1442 6 100.0 20 2 US-08-837-201C-20 Sequence 20, Appl  
c1443 6 100.0 20 2 US-08-837-201C-25 Sequence 25, Appl  
1444 6 100.0 20 2 US-08-837-201C-50 Sequence 50, Appl  
1445 6 100.0 20 2 US-08-837-201C-67 Sequence 67, Appl  
c1446 6 100.0 20 2 US-08-743-637B-202 Sequence 202, App  
1447 6 100.0 20 2 US-08-743-637B-221 Sequence 221, App  
c1448 6 100.0 20 2 US-08-743-637B-260 Sequence 260, App  
1449 6 100.0 20 2 US-08-890-980-60 Sequence 60, Appl  
c1450 6 100.0 20 2 US-09-289-368-74 Sequence 74, Appl  
1451 6 100.0 20 2 US-09-289-368-76 Sequence 76, Appl  
1452 6 100.0 20 2 US-08-904-901-36 Sequence 36, Appl  
c1453 6 100.0 20 2 US-08-904-901-46 Sequence 46, Appl  
1454 6 100.0 20 3 US-08-574-396-18 Sequence 18, Appl  
c1455 6 100.0 20 3 US-09-045-106-17 Sequence 17, Appl  
1456 6 100.0 20 3 US-08-940-250-19 Sequence 19, Appl  
c1457 6 100.0 20 3 US-09-226-568-5 Sequence 5, Appl  
1458 6 100.0 20 3 US-09-226-568-37 Sequence 37, Appl  
c1459 6 100.0 20 3 US-08-488-181-16 Sequence 16, Appl  
c1460 6 100.0 20 3 US-08-388-353-621 Sequence 621, App  
c1461 6 100.0 20 3 US-09-065-858-3 Sequence 3, Appli  
c1462 6 100.0 20 3 US-08-488-551B-621 Sequence 621, App  
1463 6 100.0 20 3 US-08-991-942-8 Sequence 7, Appli  
c1464 6 100.0 20 3 US-08-578-615A-7 Sequence 7, Appli  
c1465 6 100.0 20 3 US-08-578-615A-35 Sequence 35, Appl  
1466 6 100.0 20 3 US-08-578-615A-38 Sequence 38, Appl  
c1467 6 100.0 20 3 US-08-578-615A-74 Sequence 74, Appl  
1468 6 100.0 20 3 US-08-982-845B-33 Sequence 33, Appl  
c1469 6 100.0 20 3 US-08-982-845B-64 Sequence 64, Appl  
1470 6 100.0 20 3 US-08-846-111D-9 Sequence 9, Appli  
c1471 6 100.0 20 3 US-09-065-883-3 Sequence 3, Appli  
c1472 6 100.0 20 3 US-08-646-789A-47 Sequence 47, Appl  
1473 6 100.0 20 3 US-08-974-180-31 Sequence 31, Appl  
c1474 6 100.0 20 3 US-08-665-259-63 Sequence 63, Appl  
1475 6 100.0 20 3 US-08-890-979-60 Sequence 60, Appl  
c1476 6 100.0 20 3 US-08-762-500-63 Sequence 63, Appl  
1477 6 100.0 20 3 US-09-044-946-26 Sequence 26, Appl  
c1478 6 100.0 20 3 US-09-357-073-25 Sequence 25, Appl  
1479 6 100.0 20 3 US-09-255-912-2 Sequence 2, Appli  
c1480 6 100.0 20 3 US-08-745-892-5 Sequence 5, Appli  
1481 6 100.0 20 3 US-08-379-452-36 Sequence 36, Appl  
c1482 6 100.0 20 3 US-08-776-138-3 Sequence 3, Appli  
1483 6 100.0 20 3 US-09-256-465-3 Sequence 3, Appli  
c1484 6 100.0 20 3 US-09-357-071-19 Sequence 19, Appl  
1485 6 100.0 20 3 US-09-095-769-3 Sequence 3, Appli  
c1486 6 100.0 20 3 US-09-357-070-31 Sequence 31, Appl  
1487 6 100.0 20 3 US-09-357-070-32 Sequence 32, Appl

1488 6 100.0 20 3 US-09-357-070-33 Sequence 33, Appl  
1489 6 100.0 20 3 US-09-357-070-34 Sequence 34, Appl  
1490 6 100.0 20 3 US-09-357-070-35 Sequence 35, Appl  
c1491 6 100.0 20 3 US-09-289-267-61 Sequence 61, Appl  
c1492 6 100.0 20 3 US-09-289-267-68 Sequence 68, Appl  
c1493 6 100.0 20 3 US-09-078-290A-12 Sequence 12, Appl  
c1494 6 100.0 20 3 US-09-073-465-3 Sequence 3, Appli  
c1495 6 100.0 20 3 US-09-073-465-5 Sequence 5, Appli  
c1496 6 100.0 20 3 US-09-344-001-41 Sequence 41, Appl  
1497 6 100.0 20 3 US-09-121-920-21 Sequence 21, Appl  
c1498 6 100.0 20 3 US-08-867-381A-46 Sequence 46, Appl  
c1499 6 100.0 20 3 US-08-777-266A-28 Sequence 28, Appl  
1500 6 100.0 20 3 US-08-777-266A-30 Sequence 30, Appl

## ALIGNMENTS

RESULT 1  
US-08-859-954-294 ; Sequence 294, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 294:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHEICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-294

Query Match 100.0%; Score 6; DB 3; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.4e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CTCGCT 6  
|||||



```
Db          1 CTGCCT 6

RESULT 2
US-08-859-954-496
; Sequence 496, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 496:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-496

Query Match          100.0%; Score 6; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 6.4e+07;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 CTGCCT 6
Db          2 CTGCCT 7

RESULT 3
US-09-989-789-2179/c
; Sequence 2179, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2179
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2179

Query Match          100.0%; Score 6; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 CTGCCT 6
Db          7 CTGCCT 2

RESULT 4
US-09-989-789-2180/c
; Sequence 2180, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2180
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2180

Query Match          100.0%; Score 6; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 CTGCCT 6
Db          7 CTGCCT 2

RESULT 5
US-09-989-789-2325/c
; Sequence 2325, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2325
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2325

Query Match          100.0%; Score 6; DB 4; Length 9;
```

Best Local Similarity 100.0%; Pred. No. 5.7e+07; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCCT 6  
Db 7 CTGCCT 2

## RESULT 6

US-09-989-789-2341/c  
; Sequence 2341, Application US/09989789  
; Patent No. 6588746  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2341  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example target  
; OTHER INFORMATION: DNA  
US-09-989-789-2341

Query Match 100.0%; Score 6; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCCT 6  
Db 7 CTGCCT 2

## RESULT 7

US-09-989-789-2436/c  
; Sequence 2436, Application US/09989789  
; Patent No. 6588746  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2436  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example target  
; OTHER INFORMATION: DNA  
US-09-989-789-2436

Query Match 100.0%; Score 6; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCCT 6  
Db 7 CTGCCT 2

## RESULT 8

US-09-989-789-2437/c  
; Sequence 2437, Application US/09989789

Patent No. 6588746  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2437  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example target  
; OTHER INFORMATION: DNA  
US-09-989-789-2437

Query Match 100.0%; Score 6; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCCT 6  
Db 7 CTGCCT 2

## RESULT 9

PCT-US94-05659-1  
; Sequence 1, Application PC/TUS9405659  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: TNF' RESPONSIVE ELEMENT, TNF'-INDUCED DNA-BINDING  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/05659  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: FDC93-01 FF  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-861-6240  
; TELEFAX: 617-861-9540  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
PCT-US94-05659-1

Query Match 100.0%; Score 6; DB 5; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCCT 6  
Db 7 CTGCCT 2

```
Db          4 CTGCCT 9

RESULT 10
PCT-US94-05659-3
; Sequence 3, Application PC/TUS9405659
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: TNF RESPONSIVE ELEMENT, TNF-INDUCED DNA-BINDING
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05659
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: FDC93-01 FF
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US94-05659-3

Query Match          100.0%; Score 6; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 CTGCCT 6
Db          4 CTGCCT 9

RESULT 12
PCT-US94-05659-18
; Sequence 18, Application PC/TUS9405659
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: TNF RESPONSIVE ELEMENT, TNF-INDUCED DNA-BINDING
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05659
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: FDC93-01 FF
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US94-05659-18

Query Match          100.0%; Score 6; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 CTGCCT 6
Db          4 CTGCCT 9

RESULT 11
PCT-US94-05659-17
; Sequence 17, Application PC/TUS9405659
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: TNF RESPONSIVE ELEMENT, TNF-INDUCED DNA-BINDING
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05659
; FILING DATE:
```

RESULT 13  
US-08-049-283A-25/c  
; Sequence 25, Application US/08049283A  
; Patent No. 5502176  
; GENERAL INFORMATION:  
; APPLICANT: Tenen, Daniel G.  
; APPLICANT: Pahl, Heike L.  
; APPLICANT: Burn, Timothy C.  
; TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof  
; NUMBER OF SEQUENCES: 34  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; FILING DATE: 14-APR-1993  
; PRIOR APPLICATION NUMBER: US/08/049,283A  
; FILING DATE: 08/020,465  
; CLASSIFICATION: 435  
; APPLICATION NUMBER: 07/837,776  
; FILING DATE: 13-FEB-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brook, David E.  
; REGISTRATION NUMBER: 22,592  
; REFERENCE/DOCKET NUMBER: BIH91-03'A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 861-6240  
; TELEFAX: (617) 861-9540  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-049-283A-25  
Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.6e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 CTGCCT 6  
Db 10 CTGCCT 5  
RESULT 14  
US-08-049-283A-31  
; Sequence 31, Application US/08049283A  
; Patent No. 5502176  
; GENERAL INFORMATION:  
; APPLICANT: Tenen, Daniel G.  
; APPLICANT: Pahl, Heike L.  
; APPLICANT: Burn, Timothy C.  
; TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof  
; NUMBER OF SEQUENCES: 34  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive

; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; FILING DATE: 14-APR-1993  
; PRIOR APPLICATION NUMBER: US/08/049,283A  
; FILING DATE: 08/020,465  
; CLASSIFICATION: 435  
; APPLICATION NUMBER: 07/837,776  
; FILING DATE: 13-FEB-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brook, David E.  
; REGISTRATION NUMBER: 22,592  
; REFERENCE/DOCKET NUMBER: BIH91-03'A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 861-6240  
; TELEFAX: (617) 861-9540  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-049-283A-31  
Query Match 100.0%; Score 6; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 5.6e+04;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 CTGCCT 6  
Db 4 CTGCCT 9  
RESULT 15  
US-08-335-565A-8/c  
; Sequence 8, Application US/08335565A  
; Patent No. 5527671  
; GENERAL INFORMATION:  
; APPLICANT: Li, Kening  
; APPLICANT: Rouse, Douglas I.  
; APPLICANT: German, Thomas L.  
; TITLE OF INVENTION: ASSAY FOR VERTICILLIUM DAHLIAE  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles and Brady  
; STREET: 1 South Pinckney St., PO BOX 2113  
; CITY: Madison  
; STATE: WI  
; COUNTRY: USA  
; ZIP: 53701-2113  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: US/08/335,565A  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:

```
; NAME: Seay, Nicholas J
; REGISTRATION NUMBER: 27,386
; REFERENCE/DOCKET NUMBER: 960296.93065
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-335-565A-8

Query Match      100.0%; Score 6; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. NO. 5.6e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CTGCCT 6
        |||||
Db       8 CTGCCT 3
```

Search completed: September 1, 2004, 02:35:25  
Job time : 45.3 secs

Exhibit E

09/869,098

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 31.0833 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098A-1\_COPY\_1364\_1368

Perfect score: 5  
Sequence: 1 ccaat 5

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

- Database :
- 1: /cgn2\_6/ptodata/2/ina/5A COMB.seq.\*
  - 2: /cgn2\_6/ptodata/2/ina/5B COMB.seq.\*
  - 3: /cgn2\_6/ptodata/2/ina/6A COMB.seq.\*
  - 4: /cgn2\_6/ptodata/2/ina/6B COMB.seq.\*
  - 5: /cgn2\_6/ptodata/2/ina/PCTUS COMB.seq.\*
  - 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5	100.0	5	3	US-08-630-019A-45
2	5	100.0	5	4	US-08-623-428D-59
3	5	100.0	5	4	US-09-511-625B-70
4	5	100.0	5	4	US-09-305-839-43
5	5	100.0	5	4	US-09-924-346-4
6	5	100.0	8	2	US-08-593-345B-13
7	5	100.0	9	1	US-07-882-838E-2
8	5	100.0	9	1	US-08-153-051B-10
9	5	100.0	9	2	US-08-151-477A-10
10	5	100.0	9	3	US-08-819-867-10
11	5	100.0	9	3	US-08-282-824A-1
12	5	100.0	9	3	US-09-222-009-1
13	5	100.0	9	4	US-09-452-817-16
14	5	100.0	9	4	US-09-179-298-4
15	5	100.0	9	4	US-09-179-298-5
16	5	100.0	9	4	US-09-179-298-6
17	5	100.0	9	4	US-09-179-298-7
18	5	100.0	9	4	US-08-888-341-4
19	5	100.0	9	4	US-09-888-341-5
20	5	100.0	9	4	US-09-888-341-6
21	5	100.0	9	4	US-09-888-341-7
22	5	100.0	9	4	US-09-378-535-10
23	5	100.0	9	4	US-09-989-789-2150
24	5	100.0	9	4	US-09-989-789-2151
25	5	100.0	9	4	US-09-281-858-1
26	5	100.0	10	1	US-09-985-799-6
27	5	100.0	10	1	US-09-985-799-8

Sequence 38, Appl	10	1	US-09-263-790-38	5	100.0	28
Sequence 20, Appl	10	1	US-09-721-777-20	5	100.0	29
Sequence 6, Appl	10	1	US-07-767-135-6	5	100.0	30
Sequence 11, Appl	10	1	US-08-060-952C-11	5	100.0	31
Sequence 9, Appl	10	1	US-08-701-270-9	5	100.0	32
Sequence 6, Appl	10	1	US-08-594-031-6	5	100.0	33
Sequence 8, Appl	10	1	US-08-594-031-8	5	100.0	34
Sequence 17, Appl	10	2	US-08-659-453B-17	5	100.0	35
Sequence 16, Appl	10	2	US-08-590-571-16	5	100.0	36
Sequence 19, Appl	10	2	US-08-634-350-19	5	100.0	37
Sequence 27, Appl	10	3	US-08-388-353-27	5	100.0	38
Sequence 28, Appl	10	3	US-08-388-353-28	5	100.0	39
Sequence 29, Appl	10	3	US-08-388-353-29	5	100.0	40
Sequence 30, Appl	10	3	US-08-388-353-30	5	100.0	41
Sequence 31, Appl	10	3	US-08-388-353-31	5	100.0	42
Sequence 32, Appl	10	3	US-08-388-353-32	5	100.0	43
Sequence 228, App	10	3	US-08-388-353-228	5	100.0	44
Sequence 229, App	10	3	US-08-388-353-229	5	100.0	45
Sequence 230, App	10	3	US-08-388-353-230	5	100.0	46
Sequence 231, App	10	3	US-08-388-353-231	5	100.0	47
Sequence 232, App	10	3	US-08-388-353-232	5	100.0	48
Sequence 233, App	10	3	US-08-388-353-233	5	100.0	49
Sequence 364, App	10	3	US-08-388-353-364	5	100.0	50
Sequence 365, App	10	3	US-08-388-353-365	5	100.0	51
Sequence 366, App	10	3	US-08-388-353-366	5	100.0	52
Sequence 367, App	10	3	US-08-388-353-367	5	100.0	53
Sequence 368, App	10	3	US-08-388-353-368	5	100.0	54
Sequence 369, App	10	3	US-08-388-353-369	5	100.0	55
Sequence 463, App	10	3	US-08-388-353-463	5	100.0	56
Sequence 464, App	10	3	US-08-388-353-464	5	100.0	57
Sequence 465, App	10	3	US-08-388-353-465	5	100.0	58
Sequence 466, App	10	3	US-08-388-353-466	5	100.0	59
Sequence 467, App	10	3	US-08-388-353-467	5	100.0	60
Sequence 468, App	10	3	US-08-388-353-468	5	100.0	61
Sequence 27, Appl	10	3	US-08-488-551B-27	5	100.0	62
Sequence 28, Appl	10	3	US-08-488-551B-28	5	100.0	63
Sequence 29, Appl	10	3	US-08-488-551B-29	5	100.0	64
Sequence 30, Appl	10	3	US-08-488-551B-30	5	100.0	65
Sequence 31, Appl	10	3	US-08-488-551B-31	5	100.0	66
Sequence 32, Appl	10	3	US-08-488-551B-32	5	100.0	67
Sequence 228, App	10	3	US-08-488-551B-228	5	100.0	68
Sequence 229, App	10	3	US-08-488-551B-229	5	100.0	69
Sequence 230, App	10	3	US-08-488-551B-230	5	100.0	70
Sequence 231, App	10	3	US-08-488-551B-231	5	100.0	71
Sequence 232, App	10	3	US-08-488-551B-232	5	100.0	72
Sequence 233, App	10	3	US-08-488-551B-233	5	100.0	73
Sequence 364, App	10	3	US-08-488-551B-364	5	100.0	74
Sequence 365, App	10	3	US-08-488-551B-365	5	100.0	75
Sequence 366, App	10	3	US-08-488-551B-366	5	100.0	76
Sequence 367, App	10	3	US-08-488-551B-367	5	100.0	77
Sequence 368, App	10	3	US-08-488-551B-368	5	100.0	78
Sequence 369, App	10	3	US-08-488-551B-369	5	100.0	79
Sequence 463, App	10	3	US-08-488-551B-463	5	100.0	80
Sequence 464, App	10	3	US-08-488-551B-464	5	100.0	81
Sequence 465, App	10	3	US-08-488-551B-465	5	100.0	82
Sequence 466, App	10	3	US-08-488-551B-466	5	100.0	83
Sequence 467, App	10	3	US-08-488-551B-467	5	100.0	84
Sequence 468, App	10	3	US-08-488-551B-468	5	100.0	85
Sequence 7, Appl	10	3	US-08-906-691-7	5	100.0	86
Sequence 17, Appl	10	3	US-09-089-853A-17	5	100.0	87
Sequence 17, Appl	10	3	US-09-196-543D-17	5	100.0	88
Sequence 17, Appl	10	3	US-09-131-009A-17	5	100.0	89
Sequence 93, Appl	10	3	US-09-092-226A-17	5	100.0	90
Sequence 95, Appl	10	3	US-08-991-789A-93	5	100.0	91
Sequence 17, Appl	10	3	US-08-991-789A-96	5	100.0	92
Sequence 96, Appl	10	3	US-09-130-862A-17	5	100.0	93
Sequence 17, Appl	10	3	US-09-240-918-96	5	100.0	94
Sequence 17, Appl	10	3	US-09-090-809A-17	5	100.0	95
Sequence 49, Appl	10	3	US-09-398-499-49	5	100.0	96
Sequence 14, Appl	10	4	US-09-140-084-14	5	100.0	97
Sequence 34, Appl	10	4	US-08-623-428D-34	5	100.0	98
Sequence 96, Appl	10	4	US-09-062-451-93	5	100.0	99
Sequence 96, Appl	10	4	US-09-062-451-96	5	100.0	100

101	5	100.0	10	4	US-09-053-116A-17	Sequence 17, Appl	C 174	5	100.0	12	3	US-09-282-824A-3	Sequence 3, Appl
C 102	5	100.0	10	4	US-08-464-011B-11	Sequence 11, Appl	C 175	5	100.0	12	3	US-09-222-009-3	Sequence 3, Appl
C 103	5	100.0	10	4	US-09-598-326-93	Sequence 93, Appl	C 176	5	100.0	12	3	US-08-930-828A-31	Sequence 31, Appl
C 104	5	100.0	10	4	US-09-598-326-96	Sequence 96, Appl	C 177	5	100.0	12	3	US-09-085-273-105	Sequence 105, App
C 105	5	100.0	10	4	US-09-724-297-14	Sequence 14, Appl	C 178	5	100.0	12	3	US-09-267-433-43	Sequence 43, Appl
C 106	5	100.0	10	4	US-09-154-750A-35	Sequence 35, Appl	C 179	5	100.0	12	3	US-09-281-418-54	Sequence 54, Appl
C 107	5	100.0	10	4	US-09-154-750A-42	Sequence 42, Appl	C 180	5	100.0	12	3	US-09-281-418-58	Sequence 58, Appl
C 108	5	100.0	10	4	US-09-261-115-21	Sequence 21, Appl	C 181	5	100.0	12	3	US-09-281-418-85	Sequence 85, Appl
C 109	5	100.0	10	4	US-09-336-946B-10	Sequence 10, Appl	C 182	5	100.0	12	3	US-09-281-418-87	Sequence 87, Appl
C 110	5	100.0	10	4	US-09-914-259-153	Sequence 153, App	C 183	5	100.0	12	3	US-09-281-418-89	Sequence 89, Appl
C 111	5	100.0	10	4	US-09-301-721A-23	Sequence 23, Appl	C 184	5	100.0	12	3	US-09-281-418-178	Sequence 178, App
C 112	5	100.0	10	4	US-09-445-388A-4	Sequence 4, Appl	C 185	5	100.0	12	4	US-09-580-517-19	Sequence 19, Appl
C 113	5	100.0	10	4	US-09-445-388A-5	Sequence 5, Appl	C 186	5	100.0	12	4	US-09-393-783A-64	Sequence 64, Appl
C 114	5	100.0	10	4	US-09-508-753B-171	Sequence 171, App	C 187	5	100.0	12	4	US-09-393-783A-65	Sequence 65, Appl
C 115	5	100.0	10	4	US-09-508-753B-203	Sequence 203, App	C 188	5	100.0	12	4	US-09-393-783A-66	Sequence 66, Appl
C 116	5	100.0	10	4	US-09-508-753B-223	Sequence 223, App	C 189	5	100.0	12	4	US-09-393-783A-67	Sequence 67, Appl
C 117	5	100.0	10	4	US-09-508-753B-352	Sequence 352, App	C 190	5	100.0	12	4	US-09-393-783A-67	Sequence 67, Appl
C 118	5	100.0	10	4	US-09-289-198-93	Sequence 93, Appl	C 191	5	100.0	12	4	US-09-354-947-618	Sequence 618, App
C 119	5	100.0	10	4	US-09-289-198-96	Sequence 96, Appl	C 192	5	100.0	12	4	US-09-513-783A-83	Sequence 83, Appl
C 120	5	100.0	10	4	US-09-429-755-93	Sequence 93, Appl	C 193	5	100.0	12	4	US-09-151-890B-64	Sequence 64, Appl
C 121	5	100.0	10	4	US-09-429-755-96	Sequence 96, Appl	C 194	5	100.0	12	4	US-09-151-890B-65	Sequence 65, Appl
C 122	5	100.0	10	4	US-10-032-307-15	Sequence 15, Appl	C 195	5	100.0	12	4	US-09-151-890B-66	Sequence 66, Appl
C 123	5	100.0	10	6	5352578-1	Sequence 15, Appl	C 196	5	100.0	12	4	US-09-151-890B-67	Sequence 67, Appl
C 124	5	100.0	10	6	5451502-4	Patent No. 5352578	C 197	5	100.0	12	4	US-09-151-890B-67	Sequence 67, Appl
C 125	5	100.0	11	1	US-07-780-973-11	Sequence 11, Appl	C 200	5	100.0	12	4	US-09-073-138-43	Sequence 43, Appl
C 126	5	100.0	11	1	US-08-376-688-1	Sequence 1, Appl	C 201	5	100.0	12	4	US-08-705-477E-77	Sequence 77, Appl
C 127	5	100.0	11	1	US-08-473-122-8	Sequence 8, Appl	C 202	5	100.0	12	4	US-09-916-963-105	Sequence 105, App
C 128	5	100.0	11	2	US-08-472-478-8	Sequence 8, Appl	C 203	5	100.0	12	6	PCT-US93-12388-618	Sequence 618, App
C 129	5	100.0	11	3	US-09-018-545-8	Sequence 8, Appl	C 204	5	100.0	12	5	5204259-17	Patent No. 5204259
C 130	5	100.0	11	3	US-08-745-404-6	Sequence 6, Appl	C 205	5	100.0	13	1	US-07-906-930E-18	Sequence 18, Appl
C 131	5	100.0	11	3	US-08-745-404-7	Sequence 7, Appl	C 206	5	100.0	13	1	US-08-435-350-13	Sequence 13, App
C 132	5	100.0	11	3	US-09-196-523-34	Sequence 34, Appl	C 207	5	100.0	13	1	US-08-448-736-8	Sequence 8, Appl
C 133	5	100.0	11	4	US-08-481-659C-8	Sequence 8, Appl	C 208	5	100.0	13	1	US-08-271-880A-199	Sequence 199, App
C 134	5	100.0	11	4	US-08-927-165A-24	Sequence 24, Appl	C 209	5	100.0	13	1	US-08-452-779-8	Sequence 8, Appl
C 135	5	100.0	11	4	US-09-705-417-15	Sequence 15, Appl	C 210	5	100.0	13	1	US-08-259-148A-41	Sequence 41, Appl
C 136	5	100.0	11	4	US-09-373-129A-14	Sequence 14, Appl	C 211	5	100.0	13	1	US-08-148-058A-4	Sequence 4, Appl
C 137	5	100.0	11	4	US-09-373-129A-15	Sequence 15, Appl	C 212	5	100.0	13	1	US-08-148-058A-13	Sequence 13, Appl
C 138	5	100.0	11	4	US-09-373-129A-16	Sequence 16, Appl	C 213	5	100.0	13	1	US-08-478-042-4	Sequence 4, Appl
C 139	5	100.0	11	4	US-09-373-129A-17	Sequence 17, Appl	C 214	5	100.0	13	1	US-08-478-042-13	Sequence 13, Appl
C 140	5	100.0	11	4	US-09-373-129A-31	Sequence 31, Appl	C 215	5	100.0	13	1	US-08-445-065-8	Sequence 8, Appl
C 141	5	100.0	11	4	US-09-249-155A-101	Sequence 101, App	C 216	5	100.0	13	1	US-08-645-215-4	Sequence 4, Appl
C 142	5	100.0	11	4	US-09-249-155A-210	Sequence 210, App	C 217	5	100.0	13	2	US-08-645-215-13	Sequence 13, Appl
C 143	5	100.0	11	4	US-09-249-155A-320	Sequence 320, App	C 218	5	100.0	13	2	US-08-466-604-4	Sequence 4, Appl
C 144	5	100.0	11	4	US-09-249-155A-326	Sequence 326, App	C 219	5	100.0	13	2	US-08-466-604-13	Sequence 13, Appl
C 145	5	100.0	11	4	US-09-657-445A-9	Sequence 9, Appl	C 220	5	100.0	13	2	US-07-876-941A-57	Sequence 57, Appl
C 146	5	100.0	11	5	PCT-US94-03747-1	Sequence 1, Appl	C 221	5	100.0	13	2	US-08-910-408-199	Sequence 199, App
C 147	5	100.0	12	1	US-08-171-389-618	Sequence 618, App	C 222	5	100.0	13	2	US-08-771-602D-27	Sequence 27, Appl
C 148	5	100.0	12	1	US-08-330-123A-19	Sequence 19, Appl	C 223	5	100.0	13	3	US-08-544-381B-35	Sequence 35, Appl
C 149	5	100.0	12	1	US-08-284-484A-1	Sequence 1, Appl	C 224	5	100.0	13	3	US-08-544-381B-44	Sequence 44, Appl
C 150	5	100.0	12	1	US-07-996-783-18	Sequence 18, Appl	C 225	5	100.0	13	3	US-08-959-524-8	Sequence 8, Appl
C 151	5	100.0	12	1	US-08-484-499-18	Sequence 18, Appl	C 226	5	100.0	13	3	US-09-249-215-199	Sequence 199, App
C 152	5	100.0	12	1	US-08-423-936-618	Sequence 618, App	C 227	5	100.0	13	4	US-09-196-523-43	Sequence 43, Appl
C 153	5	100.0	12	1	US-08-475-221B-18	Sequence 18, Appl	C 228	5	100.0	13	4	US-08-778-794A-93	Sequence 93, Appl
C 154	5	100.0	12	1	US-08-475-221B-18	Sequence 18, Appl	C 229	5	100.0	13	4	US-09-611-452A-8	Sequence 8, Appl
C 155	5	100.0	12	1	US-08-545-785-1	Sequence 1, Appl	C 230	5	100.0	13	4	US-09-474-432B-92	Sequence 92, Appl
C 156	5	100.0	12	2	US-08-441-887A-247	Sequence 247, App	C 231	5	100.0	13	4	US-09-476-387-92	Sequence 92, Appl
C 157	5	100.0	12	2	US-08-441-887A-248	Sequence 248, App	C 232	5	100.0	13	4	US-09-874-601-61	Sequence 61, Appl
C 158	5	100.0	12	2	US-08-417-174-43	Sequence 43, Appl	C 233	5	100.0	13	6	5182195-40	Patent No. 5182195
C 159	5	100.0	12	2	US-08-642-045B-24	Sequence 24, Appl	C 234	5	100.0	13	6	5256538-9	Patent No. 5256538
C 160	5	100.0	12	2	US-08-761-242-1	Sequence 1, Appl	C 235	5	100.0	13	6	5432082-1	Patent No. 5432082
C 161	5	100.0	12	2	US-08-761-242-1	Sequence 1, Appl	C 236	5	100.0	13	6	5451502-17	Patent No. 5451502
C 162	5	100.0	12	2	US-08-231-565A-41	Sequence 41, Appl	C 237	5	100.0	14	1	US-07-882-838E-32	Sequence 32, Appl
C 163	5	100.0	12	2	US-08-485-778-38	Sequence 38, Appl	C 238	5	100.0	14	2	US-08-418-085-77	Sequence 77, Appl
C 164	5	100.0	12	2	US-08-634-350-18	Sequence 18, Appl	C 239	5	100.0	14	3	US-08-544-381B-2	Sequence 2, Appl
C 165	5	100.0	12	2	US-08-390-888A-10	Sequence 10, Appl	C 240	5	100.0	14	3	US-08-544-381B-3	Sequence 3, Appl
C 166	5	100.0	12	2	US-08-893-614-6	Sequence 6, Appl	C 241	5	100.0	14	3	US-08-544-381B-4	Sequence 4, Appl
C 167	5	100.0	12	2	US-09-007-961-41	Sequence 41, Appl	C 242	5	100.0	14	3	US-08-544-381B-5	Sequence 5, Appl
C 168	5	100.0	12	2	US-08-658-665-105	Sequence 105, App	C 243	5	100.0	14	3	US-08-544-381B-6	Sequence 6, Appl
C 169	5	100.0	12	2	US-08-482-080A-618	Sequence 618, App	C 244	5	100.0	14	3	US-08-544-381B-7	Sequence 7, Appl
C 170	5	100.0	12	3	US-08-520-550A-38	Sequence 38, Appl	C 245	5	100.0	14	3	US-08-544-381B-8	Sequence 8, Appl
C 171	5	100.0	12	3	US-08-796-101-82	Sequence 82, Appl	C 246	5	100.0	14	3	US-08-985-162-1781	Sequence 1781, Ap

C 247	14	3	US-08-711-218-1	Sequence 1, Appl	C 320	5	100.0	15	1	US-08-334-847-318	Sequence 318, App
C 248	14	3	US-08-913-833-21	Sequence 21, Appl	C 321	5	100.0	15	1	US-08-334-847-506	Sequence 506, App
C 249	14	3	US-08-913-833-23	Sequence 23, Appl	C 322	5	100.0	15	1	US-08-334-847-507	Sequence 507, App
C 250	14	3	US-08-913-833-29	Sequence 29, Appl	C 323	5	100.0	15	1	US-08-334-847-611	Sequence 611, App
C 251	14	3	US-08-134-855-3	Sequence 3, Appl	C 324	5	100.0	15	1	US-08-271-880A-5	Sequence 5, Appl
C 252	14	3	US-08-765-340-129	Sequence 129, App	C 325	5	100.0	15	1	US-08-271-880A-7	Sequence 7, Appl
C 253	14	3	US-08-099-011A-77	Sequence 77, Appl	C 326	5	100.0	15	1	US-08-271-880A-194	Sequence 194, App
C 254	14	3	US-08-871-678C-76	Sequence 76, Appl	C 327	5	100.0	15	1	US-08-271-880A-221	Sequence 221, App
C 255	14	4	US-08-778-794A-24	Sequence 24, Appl	C 328	5	100.0	15	1	US-08-363-240A-98	Sequence 98, Appl
C 256	14	4	US-08-778-794A-25	Sequence 25, Appl	C 329	5	100.0	15	1	US-08-363-240A-250	Sequence 250, App
C 257	14	4	US-08-778-794A-26	Sequence 26, Appl	C 330	5	100.0	15	1	US-08-363-240A-251	Sequence 251, App
C 258	14	4	US-08-778-794A-27	Sequence 27, Appl	C 331	5	100.0	15	1	US-08-585-682-14	Sequence 14, Appl
C 259	14	4	US-08-778-794A-28	Sequence 28, Appl	C 332	5	100.0	15	1	US-08-221-816B-24	Sequence 24, Appl
C 260	14	4	US-08-778-794A-29	Sequence 29, Appl	C 333	5	100.0	15	1	US-08-706-037-21	Sequence 21, Appl
C 261	14	4	US-08-778-794A-30	Sequence 30, Appl	C 334	5	100.0	15	1	US-08-700-186-14	Sequence 14, Appl
C 262	14	4	US-08-778-794A-119	Sequence 119, App	C 335	5	100.0	15	1	US-08-311-486C-115	Sequence 115, App
C 263	14	4	US-08-580-794C-21	Sequence 21, Appl	C 336	5	100.0	15	1	US-08-311-486C-129	Sequence 129, App
C 264	14	4	US-08-580-794C-23	Sequence 23, Appl	C 337	5	100.0	15	1	US-08-311-486C-216	Sequence 216, App
C 265	14	4	US-08-580-794C-29	Sequence 29, Appl	C 338	5	100.0	15	1	US-08-311-486C-757	Sequence 757, App
C 266	14	4	US-08-295-744A-18	Sequence 18, Appl	C 339	5	100.0	15	1	US-08-435-628-82	Sequence 82, Appl
C 267	14	4	US-08-666-341A-35	Sequence 35, Appl	C 340	5	100.0	15	1	US-08-435-628-2624	Sequence 2624, Ap
C 268	14	4	US-08-666-341A-36	Sequence 36, Appl	C 341	5	100.0	15	1	US-08-435-628-2626	Sequence 2626, Ap
C 269	14	4	US-08-713-678-1	Sequence 1, Appl	C 342	5	100.0	15	2	US-08-292-620A-59	Sequence 59, Appl
C 270	14	4	US-08-401-663-1781	Sequence 1781, Ap	C 343	5	100.0	15	2	US-08-292-620A-60	Sequence 60, Appl
C 271	14	4	US-08-874-601-75	Sequence 75, Appl	C 344	5	100.0	15	2	US-08-292-620A-61	Sequence 61, Appl
C 272	14	4	US-08-874-601-180	Sequence 180, App	C 345	5	100.0	15	2	US-08-292-620A-123	Sequence 123, App
C 273	14	4	US-08-098-877B-77	Sequence 77, Appl	C 346	5	100.0	15	2	US-08-292-620A-170	Sequence 170, App
C 274	14	4	US-10-002-720-1	Sequence 1, Appl	C 347	5	100.0	15	2	US-08-292-620A-171	Sequence 171, App
C 275	15	1	US-07-820-412-3	Sequence 3, Appl	C 348	5	100.0	15	2	US-08-292-620A-200	Sequence 200, App
C 276	15	1	US-07-912-900-12	Sequence 12, Appl	C 349	5	100.0	15	2	US-08-292-620A-201	Sequence 201, App
C 277	15	1	US-07-860-925-22	Sequence 22, Appl	C 350	5	100.0	15	2	US-08-292-620A-202	Sequence 202, App
C 278	15	1	US-07-860-925-30	Sequence 30, Appl	C 351	5	100.0	15	2	US-08-292-620A-259	Sequence 259, App
C 279	15	1	US-07-987-130-2	Sequence 2, Appl	C 352	5	100.0	15	2	US-08-292-620A-260	Sequence 260, App
C 280	15	1	US-07-906-930E-8	Sequence 8, Appl	C 353	5	100.0	15	2	US-08-292-620A-261	Sequence 261, App
C 281	15	1	US-08-285-309-12	Sequence 12, Appl	C 354	5	100.0	15	2	US-08-292-620A-323	Sequence 323, App
C 282	15	1	US-07-988-925-17	Sequence 17, Appl	C 355	5	100.0	15	2	US-08-292-620A-324	Sequence 324, App
C 283	15	1	US-08-311-462-2	Sequence 2, Appl	C 356	5	100.0	15	2	US-08-292-620A-536	Sequence 536, App
C 284	15	1	US-08-311-462-11	Sequence 11, Appl	C 357	5	100.0	15	2	US-08-292-620A-543	Sequence 543, App
C 285	15	1	US-08-311-760A-50	Sequence 50, Appl	C 358	5	100.0	15	2	US-08-292-620A-554	Sequence 554, App
C 286	15	1	US-08-311-760A-62	Sequence 62, Appl	C 359	5	100.0	15	2	US-08-292-620A-600	Sequence 600, App
C 287	15	1	US-08-182-968A-178	Sequence 178, App	C 360	5	100.0	15	2	US-08-292-620A-601	Sequence 601, App
C 288	15	1	US-08-182-968A-311	Sequence 311, App	C 361	5	100.0	15	2	US-08-292-620A-602	Sequence 602, App
C 289	15	1	US-08-182-968A-346	Sequence 346, App	C 362	5	100.0	15	2	US-08-292-620A-691	Sequence 691, App
C 290	15	1	US-08-182-968A-356	Sequence 356, App	C 363	5	100.0	15	2	US-08-292-620A-742	Sequence 742, App
C 291	15	1	US-08-182-968A-357	Sequence 357, App	C 364	5	100.0	15	2	US-08-441-887A-8	Sequence 8, Appl
C 292	15	1	US-08-182-968A-367	Sequence 367, App	C 365	5	100.0	15	2	US-08-434-354-2	Sequence 2, Appl
C 293	15	1	US-08-182-968A-497	Sequence 497, App	C 366	5	100.0	15	2	US-08-434-354-11	Sequence 11, Appl
C 294	15	1	US-08-319-492B-29	Sequence 29, Appl	C 367	5	100.0	15	2	US-08-417-174-44	Sequence 44, Appl
C 295	15	1	US-08-319-492B-38	Sequence 38, Appl	C 368	5	100.0	15	2	US-08-379-482A-7	Sequence 7, Appl
C 296	15	1	US-08-319-492B-64	Sequence 64, Appl	C 369	5	100.0	15	2	US-08-502-046-12	Sequence 12, Appl
C 297	15	1	US-08-319-492B-65	Sequence 65, Appl	C 370	5	100.0	15	2	US-08-774-306A-178	Sequence 178, App
C 298	15	1	US-08-319-492B-66	Sequence 66, Appl	C 371	5	100.0	15	2	US-08-774-306A-311	Sequence 311, App
C 299	15	1	US-08-319-492B-384	Sequence 384, App	C 372	5	100.0	15	2	US-08-774-306A-346	Sequence 346, App
C 300	15	1	US-08-146-886-21	Sequence 13, Appl	C 373	5	100.0	15	2	US-08-774-306A-356	Sequence 356, App
C 301	15	1	US-08-146-886-21	Sequence 21, Appl	C 374	5	100.0	15	2	US-08-774-306A-357	Sequence 357, App
C 302	15	1	US-08-220-606B-10	Sequence 10, Appl	C 375	5	100.0	15	2	US-08-774-306A-367	Sequence 367, App
C 303	15	1	US-08-220-606B-10	Sequence 10, Appl	C 376	5	100.0	15	2	US-08-774-306A-497	Sequence 497, App
C 304	15	1	US-08-373-124A-82	Sequence 82, Appl	C 377	5	100.0	15	2	US-08-231-565A-42	Sequence 42, Appl
C 305	15	1	US-08-373-124A-2624	Sequence 2624, Ap	C 378	5	100.0	15	2	US-08-585-684B-40	Sequence 40, Appl
C 306	15	1	US-08-373-124A-2626	Sequence 2626, Ap	C 379	5	100.0	15	2	US-08-585-684B-41	Sequence 41, Appl
C 307	15	1	US-08-291-932A-191	Sequence 191, App	C 380	5	100.0	15	2	US-08-585-684B-42	Sequence 42, Appl
C 308	15	1	US-08-291-932A-380	Sequence 380, App	C 381	5	100.0	15	2	US-08-585-684B-52	Sequence 52, Appl
C 309	15	1	US-08-334-215-22	Sequence 22, Appl	C 382	5	100.0	15	2	US-08-585-684B-53	Sequence 53, Appl
C 310	15	1	US-08-334-215-30	Sequence 30, Appl	C 383	5	100.0	15	2	US-08-585-684B-290	Sequence 290, App
C 311	15	1	US-08-334-847-74	Sequence 74, Appl	C 384	5	100.0	15	2	US-08-585-684B-291	Sequence 291, App
C 312	15	1	US-08-334-847-75	Sequence 75, Appl	C 385	5	100.0	15	2	US-08-585-684B-292	Sequence 292, App
C 313	15	1	US-08-334-847-76	Sequence 76, Appl	C 386	5	100.0	15	2	US-08-585-684B-664	Sequence 664, App
C 314	15	1	US-08-334-847-77	Sequence 77, Appl	C 387	5	100.0	15	2	US-08-585-684B-665	Sequence 665, App
C 315	15	1	US-08-334-847-102	Sequence 102, App	C 388	5	100.0	15	2	US-08-585-684B-1233	Sequence 1233, Ap
C 316	15	1	US-08-334-847-103	Sequence 103, App	C 389	5	100.0	15	2	US-08-585-684B-1234	Sequence 1234, Ap
C 317	15	1	US-08-334-847-308	Sequence 308, App	C 390	5	100.0	15	2	US-08-585-684B-1289	Sequence 1289, Ap
C 318	15	1	US-08-334-847-309	Sequence 309, App	C 391	5	100.0	15	2	US-08-585-684B-1290	Sequence 1290, Ap
C 319	15	1	US-08-334-847-310	Sequence 310, App	C 392	5	100.0	15	2	US-08-585-684B-1290	Sequence 1290, Ap



393	5	100.0	15	2	US-08-585-684B-1291	Sequence 1291, Ap	466	5	100.0	15	3	US-09-071-845-742	Sequence 742, App
394	5	100.0	15	2	US-08-585-684B-1292	Sequence 1292, Ap	467	5	100.0	15	3	US-09-377-310-35	Sequence 35, Appl
395	5	100.0	15	2	US-08-585-684B-2099	Sequence 2099, Ap	C 468	5	100.0	15	3	US-08-461-366A-3	Sequence 3, Appl
396	5	100.0	15	2	US-08-585-684B-2100	Sequence 2100, Ap	C 469	5	100.0	15	3	US-08-871-732A-13	Sequence 13, Appl
397	5	100.0	15	2	US-08-585-684B-2101	Sequence 2101, Ap	C 470	5	100.0	15	3	US-09-249-215-5	Sequence 5, Appl
398	5	100.0	15	2	US-08-585-684B-2130	Sequence 2130, Ap	C 471	5	100.0	15	3	US-09-249-215-7	Sequence 7, Appl
399	5	100.0	15	2	US-08-585-684B-2274	Sequence 2274, Ap	C 472	5	100.0	15	3	US-09-249-215-194	Sequence 194, App
400	5	100.0	15	2	US-08-585-684B-2275	Sequence 2275, Ap	C 473	5	100.0	15	3	US-09-249-215-221	Sequence 221, App
401	5	100.0	15	2	US-08-585-684B-2295	Sequence 2295, Ap	C 474	5	100.0	15	3	US-08-481-341-13	Sequence 13, Appl
402	5	100.0	15	2	US-08-585-684B-2296	Sequence 2296, Ap	C 475	5	100.0	15	3	US-09-109-613-21	Sequence 21, Appl
403	5	100.0	15	2	US-08-585-684B-2297	Sequence 2297, Ap	C 476	5	100.0	15	3	US-09-269-519A-4	Sequence 4, Appl
404	5	100.0	15	2	US-08-774-310-50	Sequence 50, Appl	C 477	5	100.0	15	3	US-09-038-073-40	Sequence 40, Appl
405	5	100.0	15	2	US-08-774-310-62	Sequence 62, Appl	C 478	5	100.0	15	3	US-09-038-073-41	Sequence 41, Appl
406	5	100.0	15	2	US-08-363-253-18	Sequence 18, Appl	C 479	5	100.0	15	3	US-09-038-073-42	Sequence 42, Appl
407	5	100.0	15	2	US-08-363-253-20	Sequence 20, Appl	C 480	5	100.0	15	3	US-09-038-073-52	Sequence 52, Appl
408	5	100.0	15	2	US-08-914-981-14	Sequence 14, Appl	C 481	5	100.0	15	3	US-09-038-073-53	Sequence 53, Appl
409	5	100.0	15	2	US-08-885-126-13	Sequence 13, Appl	C 482	5	100.0	15	3	US-09-038-073-290	Sequence 290, App
410	5	100.0	15	2	US-08-362-780-17	Sequence 17, Appl	C 483	5	100.0	15	3	US-09-038-073-291	Sequence 291, App
411	5	100.0	15	2	US-09-005-397-21	Sequence 21, Appl	C 484	5	100.0	15	3	US-09-038-073-292	Sequence 292, App
412	5	100.0	15	2	US-08-910-408-5	Sequence 5, Appl	C 485	5	100.0	15	3	US-09-038-073-664	Sequence 664, App
413	5	100.0	15	2	US-08-910-408-7	Sequence 7, Appl	C 486	5	100.0	15	3	US-09-038-073-665	Sequence 665, App
414	5	100.0	15	2	US-08-910-408-194	Sequence 194, App	C 487	5	100.0	15	3	US-09-038-073-1233	Sequence 1233, Ap
415	5	100.0	15	2	US-08-910-408-221	Sequence 221, App	C 488	5	100.0	15	3	US-09-038-073-1234	Sequence 1234, Ap
416	5	100.0	15	2	US-08-930-371-4	Sequence 4, Appl	C 489	5	100.0	15	3	US-09-038-073-1289	Sequence 1289, Ap
417	5	100.0	15	2	US-08-930-371-8	Sequence 8, Appl	C 490	5	100.0	15	3	US-09-038-073-1290	Sequence 1290, Ap
418	5	100.0	15	2	US-08-930-371-16	Sequence 16, Appl	C 491	5	100.0	15	3	US-09-038-073-1291	Sequence 1291, Ap
419	5	100.0	15	2	US-08-930-371-20	Sequence 20, Appl	C 492	5	100.0	15	3	US-09-038-073-1292	Sequence 1292, Ap
420	5	100.0	15	2	US-09-007-961-42	Sequence 42, Appl	C 493	5	100.0	15	3	US-09-038-073-2099	Sequence 2099, Ap
421	5	100.0	15	3	US-08-247-629-8	Sequence 8, Appl	C 494	5	100.0	15	3	US-09-038-073-2100	Sequence 2100, Ap
422	5	100.0	15	3	US-08-247-629-9	Sequence 9, Appl	C 495	5	100.0	15	3	US-09-038-073-2101	Sequence 2101, Ap
423	5	100.0	15	3	US-09-058-746-20	Sequence 20, Appl	C 496	5	100.0	15	3	US-09-038-073-2130	Sequence 2130, Ap
424	5	100.0	15	3	US-08-544-381B-114	Sequence 114, App	C 497	5	100.0	15	3	US-09-038-073-2274	Sequence 2274, Ap
425	5	100.0	15	3	US-09-116-115-14	Sequence 14, Appl	C 498	5	100.0	15	3	US-09-038-073-2275	Sequence 2275, Ap
426	5	100.0	15	3	US-08-949-770-4	Sequence 4, Appl	C 499	5	100.0	15	3	US-09-038-073-2295	Sequence 2295, Ap
427	5	100.0	15	3	US-08-827-036A-3	Sequence 3, Appl	C 500	5	100.0	15	3	US-09-038-073-2296	Sequence 2296, Ap
428	5	100.0	15	3	US-08-913-833-15	Sequence 15, Appl	C 501	5	100.0	15	3	US-09-038-073-2297	Sequence 2297, Ap
429	5	100.0	15	3	US-08-913-833-20	Sequence 20, Appl	C 502	5	100.0	15	3	US-09-289-752-7	Sequence 7, Appl
430	5	100.0	15	3	US-08-913-833-24	Sequence 24, Appl	C 503	5	100.0	15	3	US-08-793-660B-23	Sequence 23, Appl
431	5	100.0	15	3	US-08-913-833-25	Sequence 25, Appl	C 504	5	100.0	15	3	US-08-797-813-4	Sequence 4, Appl
432	5	100.0	15	3	US-08-913-833-30	Sequence 30, Appl	C 505	5	100.0	15	3	US-09-180-437-221	Sequence 221, App
433	5	100.0	15	3	US-08-913-833-63	Sequence 63, Appl	C 506	5	100.0	15	3	US-09-438-142-20	Sequence 20, Appl
434	5	100.0	15	3	US-09-134-855-4	Sequence 4, Appl	C 507	5	100.0	15	3	US-09-593-323-41	Sequence 41, Appl
435	5	100.0	15	3	US-09-182-975-18	Sequence 18, Appl	C 508	5	100.0	15	3	US-09-267-439-44	Sequence 44, Appl
436	5	100.0	15	3	US-09-182-975-20	Sequence 20, Appl	C 509	5	100.0	15	3	US-09-346-510B-13	Sequence 13, Appl
437	5	100.0	15	3	US-09-064-156A-178	Sequence 178, App	C 510	5	100.0	15	3	US-09-286-682A-1	Sequence 1, Appl
438	5	100.0	15	3	US-09-064-156A-311	Sequence 311, App	C 511	5	100.0	15	3	US-09-286-682A-2	Sequence 2, Appl
439	5	100.0	15	3	US-09-064-156A-346	Sequence 346, App	C 512	5	100.0	15	3	US-09-594-108-41	Sequence 41, Appl
440	5	100.0	15	3	US-09-064-156A-356	Sequence 356, App	C 513	5	100.0	15	3	US-09-344-300-41	Sequence 41, Appl
441	5	100.0	15	3	US-09-064-156A-367	Sequence 367, App	C 514	5	100.0	15	3	US-09-541-762-14	Sequence 14, Appl
442	5	100.0	15	3	US-09-064-156A-497	Sequence 497, App	C 515	5	100.0	15	4	US-08-424-991B-3	Sequence 3, Appl
443	5	100.0	15	3	US-09-071-845-59	Sequence 59, Appl	C 516	5	100.0	15	4	US-08-933-219B-1	Sequence 1, Appl
444	5	100.0	15	3	US-09-071-845-60	Sequence 60, Appl	C 517	5	100.0	15	4	US-09-580-794C-15	Sequence 15, Appl
445	5	100.0	15	3	US-09-071-845-61	Sequence 61, Appl	C 518	5	100.0	15	4	US-09-580-794C-20	Sequence 20, Appl
446	5	100.0	15	3	US-09-071-845-62	Sequence 62, Appl	C 519	5	100.0	15	4	US-09-580-794C-24	Sequence 24, Appl
447	5	100.0	15	3	US-09-071-845-123	Sequence 123, App	C 520	5	100.0	15	4	US-09-580-794C-25	Sequence 25, Appl
448	5	100.0	15	3	US-09-071-845-170	Sequence 170, App	C 521	5	100.0	15	4	US-09-580-794C-30	Sequence 30, Appl
449	5	100.0	15	3	US-09-071-845-171	Sequence 171, App	C 522	5	100.0	15	4	US-09-580-794C-63	Sequence 63, Appl
450	5	100.0	15	3	US-09-071-845-200	Sequence 200, App	C 523	5	100.0	15	4	US-09-081-646-1	Sequence 1, Appl
451	5	100.0	15	3	US-09-071-845-201	Sequence 201, App	C 524	5	100.0	15	4	US-09-081-646-235	Sequence 235, App
452	5	100.0	15	3	US-09-071-845-202	Sequence 202, App	C 525	5	100.0	15	4	US-09-081-646-288	Sequence 288, App
453	5	100.0	15	3	US-09-071-845-259	Sequence 259, App	C 526	5	100.0	15	4	US-09-081-646-336	Sequence 336, App
454	5	100.0	15	3	US-09-071-845-260	Sequence 260, App	C 527	5	100.0	15	4	US-09-081-646-346	Sequence 346, App
455	5	100.0	15	3	US-09-071-845-261	Sequence 261, App	C 528	5	100.0	15	4	US-09-081-646-364	Sequence 364, App
456	5	100.0	15	3	US-09-071-845-323	Sequence 323, App	C 529	5	100.0	15	4	US-09-081-646-472	Sequence 472, App
457	5	100.0	15	3	US-09-071-845-324	Sequence 324, App	C 530	5	100.0	15	4	US-09-081-646-566	Sequence 566, App
458	5	100.0	15	3	US-09-071-845-420	Sequence 420, App	C 531	5	100.0	15	4	US-09-081-646-650	Sequence 650, App
459	5	100.0	15	3	US-09-071-845-536	Sequence 536, App	C 532	5	100.0	15	4	US-09-081-646-764	Sequence 764, App
460	5	100.0	15	3	US-09-071-845-543	Sequence 543, App	C 533	5	100.0	15	4	US-09-364-320-11	Sequence 11, Appl
461	5	100.0	15	3	US-09-071-845-554	Sequence 554, App	C 534	5	100.0	15	4	US-09-628-959-13	Sequence 13, Appl
462	5	100.0	15	3	US-09-071-845-600	Sequence 600, App	C 535	5	100.0	15	4	US-09-628-959-15	Sequence 15, Appl
463	5	100.0	15	3	US-09-071-845-601	Sequence 601, App	C 536	5	100.0	15	4	US-08-653-648A-51	Sequence 51, Appl
464	5	100.0	15	3	US-09-071-845-602	Sequence 602, App	C 537	5	100.0	15	4	US-09-321-481-1	Sequence 1, Appl
465	5	100.0	15	3	US-09-071-845-691	Sequence 691, App	C 538	5	100.0	15	4	US-08-461-210-23	Sequence 23, Appl

539	5	100.0	15	4	US-08-687-387-2	Sequence 2, Appli	Sequence 28, Appli
c 540	5	100.0	15	4	US-09-780-908-11	Sequence 11, Appli	Sequence 5, Appli
c 541	5	100.0	15	4	US-09-034-113-7	Sequence 7, Appli	Sequence 5, Appli
c 542	5	100.0	15	4	US-09-073-138-44	Sequence 44, Appli	Sequence 48, Appli
c 543	5	100.0	15	4	US-08-780-934A-11	Sequence 11, Appli	Sequence 48, Appli
c 544	5	100.0	15	4	US-10-041-614-13	Sequence 13, Appli	Sequence 569, Ap
c 545	5	100.0	15	4	US-10-041-614-15	Sequence 15, Appli	Sequence 5757, Ap
c 546	5	100.0	15	4	US-09-816-089A-10	Sequence 10, Appli	Sequence 5878, Ap
c 547	5	100.0	15	4	US-09-423-097-10	Sequence 10, Appli	Sequence 5936, Ap
c 548	5	100.0	15	4	US-10-112-547-24	Sequence 24, Appli	Sequence 5944, Ap
c 549	5	100.0	15	4	US-08-564-418-46	Sequence 46, Appli	Sequence 6042, Ap
c 550	5	100.0	15	4	US-09-105-470B-22	Sequence 22, Appli	Sequence 6084, Ap
c 551	5	100.0	15	4	US-10-112-241-34	Sequence 24, Appli	Sequence 6100, Ap
c 552	5	100.0	15	4	US-09-688-078-20	Sequence 20, Appli	Sequence 7013, Ap
c 553	5	100.0	15	4	US-10-104-611-24	Sequence 24, Appli	Sequence 7037, Ap
c 554	5	100.0	15	5	PCT-US94-00265-13	Sequence 13, Appli	Sequence 7068, Ap
c 555	5	100.0	15	6	5182195-22	Patent No. 5182195	Sequence 7133, Ap
c 556	5	100.0	15	6	5182195-32	Patent No. 5182195	Sequence 4, Appli
c 557	5	100.0	15	6	5182195-51	Patent No. 5182195	Sequence 24, Appli
c 558	5	100.0	15	6	5212286-67	Patent No. 5212286	Sequence 24, Appli
c 559	5	100.0	15	6	5422260-7	Patent No. 5422260	Sequence 1, Appli
c 560	5	100.0	16	1	US-08-093-884-33	Sequence 33, Appli	Sequence 181, App
c 561	5	100.0	16	1	US-08-093-884-34	Sequence 34, Appli	Sequence 11, App
c 562	5	100.0	16	1	US-08-093-884-37	Sequence 37, Appli	Sequence 439, App
c 563	5	100.0	16	1	US-07-744-282C-121	Sequence 121, App	Sequence 127, App
c 564	5	100.0	16	1	US-08-129-719-5	Sequence 5, Appli	Sequence 204, App
c 565	5	100.0	16	1	US-08-393-219-24	Sequence 24, Appli	Sequence 204, App
c 566	5	100.0	16	1	US-08-271-880A-6	Sequence 6, Appli	Patent No. 5185440
c 567	5	100.0	16	1	US-08-390-878-10	Sequence 10, Appli	Sequence 17, Appli
c 568	5	100.0	16	1	US-08-306-871-5	Sequence 5, Appli	Sequence 2, Appli
c 569	5	100.0	16	1	US-08-569-959-5	Sequence 5, Appli	Sequence 24, Appli
c 570	5	100.0	16	1	US-08-753-147-139	Sequence 139, App	Sequence 3, Appli
c 571	5	100.0	16	1	US-08-753-147-187	Sequence 187, App	Sequence 3, Appli
c 572	5	100.0	16	1	US-08-148-058A-34	Sequence 34, Appli	Sequence 40, Appli
c 573	5	100.0	16	1	US-08-148-058A-36	Sequence 36, Appli	Sequence 17, Appli
c 574	5	100.0	16	1	US-08-478-042-34	Sequence 34, Appli	Sequence 1, Appli
c 575	5	100.0	16	1	US-08-478-042-36	Sequence 36, Appli	Sequence 13, Appli
c 576	5	100.0	16	1	US-08-645-215-34	Sequence 34, Appli	Sequence 399, App
c 577	5	100.0	16	1	US-08-645-215-36	Sequence 36, Appli	Sequence 489, App
c 578	5	100.0	16	2	US-08-292-620A-1551	Sequence 1551, Ap	Sequence 490, App
c 579	5	100.0	16	2	US-08-292-620A-1555	Sequence 1555, Ap	Sequence 491, App
c 580	5	100.0	16	2	US-08-466-604-34	Sequence 34, Appli	Sequence 515, App
c 581	5	100.0	16	2	US-08-466-604-36	Sequence 36, Appli	Sequence 516, App
c 582	5	100.0	16	2	US-08-256-568B-48	Sequence 48, Appli	Sequence 24, Appli
c 583	5	100.0	16	2	US-08-644-034A-8	Sequence 8, Appli	Sequence 5, Appli
c 584	5	100.0	16	2	US-08-644-034A-18	Sequence 18, Appli	Sequence 8, Appli
c 585	5	100.0	16	2	US-08-770-235A-38	Sequence 38, Appli	Sequence 9, Appli
c 586	5	100.0	16	2	US-08-910-408-6	Sequence 6, Appli	Sequence 21, Appli
c 587	5	100.0	16	3	US-08-544-381B-192	Sequence 192, App	Sequence 462, App
c 588	5	100.0	16	3	US-08-913-833-64	Sequence 64, Appli	Sequence 234, App
c 589	5	100.0	16	3	US-09-040-025-11	Sequence 11, Appli	Sequence 236, App
c 590	5	100.0	16	3	US-08-811-566-14	Sequence 14, Appli	Sequence 238, App
c 591	5	100.0	16	3	US-08-795-430-45	Sequence 45, Appli	Sequence 240, App
c 592	5	100.0	16	3	US-09-071-845-1551	Sequence 1551, Ap	Sequence 242, App
c 593	5	100.0	16	3	US-09-071-845-1555	Sequence 1555, Ap	Sequence 242, App
c 594	5	100.0	16	3	US-09-068-195-2	Sequence 2, Appli	Sequence 246, App
c 595	5	100.0	16	3	US-09-249-215-6	Sequence 6, Appli	Sequence 446, App
c 596	5	100.0	16	3	US-08-038-368B-48	Sequence 48, Appli	Sequence 448, App
c 597	5	100.0	16	3	US-08-413-740A-204	Sequence 204, App	Sequence 450, App
c 598	5	100.0	16	3	US-08-797-812-9	Sequence 9, Appli	Sequence 452, App
c 599	5	100.0	16	3	US-09-160-588-2	Sequence 2, Appli	Sequence 482, App
c 600	5	100.0	16	3	US-09-160-588-3	Sequence 3, Appli	Sequence 492, App
c 601	5	100.0	16	3	US-08-040-025-11	Sequence 11, Appli	Sequence 1253, Ap
c 602	5	100.0	16	4	US-08-778-794A-1	Sequence 1, Appli	Sequence 1255, Ap
c 603	5	100.0	16	4	US-09-580-794C-64	Sequence 64, Appli	Sequence 1257, Ap
c 604	5	100.0	16	4	US-09-311-912-40	Sequence 40, Appli	Sequence 1297, Ap
c 605	5	100.0	16	4	US-09-355-700-45	Sequence 45, Appli	Sequence 1337, Ap
c 606	5	100.0	16	4	US-09-034-756-14	Sequence 14, Appli	Sequence 1339, Ap
c 607	5	100.0	16	4	US-09-043-816E-16	Sequence 16, Appli	Sequence 1541, Ap
c 608	5	100.0	16	4	US-09-043-816E-20	Sequence 20, Appli	Sequence 1543, Ap
c 609	5	100.0	16	4	US-09-043-816E-25	Sequence 25, Appli	Sequence 2317, Ap
c 610	5	100.0	16	4	US-09-043-816E-26	Sequence 26, Appli	Sequence 2353, Ap
c 611	5	100.0	16	4	US-09-341-399-1	Sequence 1, Appli	Sequence 2355, Ap

685	1	US-08-373-1244-2357	Sequence 2357, Ap	758	17	2	US-08-374-652C-73	Sequence 73, Appl
686	1	US-08-373-1244-2499	Sequence 2499, Ap	759	17	2	US-08-292-620A-1633	Sequence 1633, Ap
687	1	US-08-373-124A-2541	Sequence 2541, Ap	760	17	2	US-08-292-620A-1661	Sequence 1661, Ap
688	1	US-08-373-124A-2543	Sequence 2543, Ap	761	17	2	US-08-292-620A-1685	Sequence 1685, Ap
689	1	US-08-373-124A-2545	Sequence 2545, Ap	762	17	2	US-08-292-620A-1686	Sequence 1686, Ap
690	1	US-08-373-124A-2547	Sequence 2547, Ap	763	17	2	US-08-292-620A-1687	Sequence 1687, Ap
691	1	US-08-393-219-22	Sequence 22, Appl	764	17	2	US-08-292-620A-1738	Sequence 1738, Ap
692	1	US-08-597-495B-15	Sequence 15, Appl	765	17	2	US-08-292-620A-1831	Sequence 1831, Ap
693	1	US-08-458-067-39	Sequence 39, Appl	766	17	2	US-08-292-620A-1874	Sequence 1874, Ap
694	1	US-08-435-634-399	Sequence 399, Appl	767	17	2	US-08-292-620A-1881	Sequence 1881, Ap
695	1	US-08-435-634-489	Sequence 489, Appl	768	17	2	US-08-292-620A-1916	Sequence 1916, Ap
696	1	US-08-435-634-490	Sequence 490, Appl	769	17	2	US-08-292-620A-1917	Sequence 1917, Ap
697	1	US-08-435-634-491	Sequence 491, Appl	770	17	2	US-08-292-620A-1923	Sequence 1923, Ap
698	1	US-08-435-634-515	Sequence 515, Appl	771	17	2	US-08-292-620A-1924	Sequence 1924, Ap
699	1	US-08-435-634-516	Sequence 516, Appl	772	17	2	US-08-292-620A-1943	Sequence 1943, Ap
700	1	US-08-638-911A-47	Sequence 47, Appl	773	17	2	US-08-493-197-8	Sequence 8, Appl
701	1	US-08-667-079B-14	Sequence 14, Appl	774	17	2	US-08-485-885-1	Sequence 1, Appl
702	1	US-08-327-525A-6	Sequence 6, Appl	775	17	2	US-08-117-952-577	Sequence 577, Appl
703	1	US-08-327-525A-28	Sequence 28, Appl	776	17	2	US-08-502-046-17	Sequence 17, Appl
704	1	US-08-758-306-93	Sequence 93, Appl	777	17	2	US-07-923-871C-16	Sequence 16, Appl
705	1	US-08-758-306-95	Sequence 95, Appl	778	17	2	US-08-717-587A-5	Sequence 5, Appl
706	1	US-08-758-306-97	Sequence 97, Appl	779	17	2	US-08-852-407-2	Sequence 2, Appl
707	1	US-08-758-306-99	Sequence 99, Appl	780	17	2	US-08-852-407-3	Sequence 3, Appl
708	1	US-08-758-306-221	Sequence 221, Appl	781	17	2	US-08-737-716-9	Sequence 9, Appl
709	1	US-08-758-306-223	Sequence 223, Appl	782	17	2	US-08-531-137B-6	Sequence 6, Appl
710	1	US-08-758-306-225	Sequence 225, Appl	783	17	2	US-08-531-137B-28	Sequence 28, Appl
711	1	US-08-758-306-241	Sequence 241, Appl	784	17	3	US-08-388-353-632	Sequence 632, Appl
712	1	US-08-758-306-243	Sequence 243, Appl	785	17	3	US-08-488-551B-632	Sequence 632, Appl
713	1	US-08-758-306-245	Sequence 245, Appl	786	17	3	US-08-754-490-5	Sequence 5, Appl
714	1	US-08-758-306-337	Sequence 337, Appl	787	17	3	US-08-817-145-7	Sequence 7, Appl
715	1	US-08-758-306-339	Sequence 339, Appl	788	17	3	US-08-985-162-101	Sequence 101, Appl
716	1	US-08-758-306-799	Sequence 799, Appl	789	17	3	US-08-985-162-128	Sequence 128, Appl
717	1	US-08-758-306-801	Sequence 801, Appl	790	17	3	US-08-985-162-139	Sequence 129, Appl
718	1	US-08-758-306-861	Sequence 861, Appl	791	17	3	US-08-985-162-130	Sequence 130, Appl
719	1	US-08-758-306-863	Sequence 863, Appl	792	17	3	US-08-985-162-288	Sequence 288, Appl
720	1	US-08-758-306-865	Sequence 865, Appl	793	17	3	US-08-985-162-299	Sequence 299, Appl
721	1	US-08-758-306-1077	Sequence 1077, Ap	794	17	3	US-08-985-162-300	Sequence 300, Appl
722	1	US-08-758-306-1333	Sequence 1333, Ap	795	17	3	US-08-985-162-317	Sequence 317, Appl
723	1	US-08-758-306-1335	Sequence 1335, Ap	796	17	3	US-08-985-162-318	Sequence 318, Appl
724	1	US-08-435-628-234	Sequence 234, Appl	797	17	3	US-08-985-162-439	Sequence 439, Appl
725	1	US-08-435-628-236	Sequence 236, Appl	798	17	3	US-08-985-162-440	Sequence 440, Appl
726	1	US-08-435-628-238	Sequence 238, Appl	799	17	3	US-08-985-162-441	Sequence 441, Appl
727	1	US-08-435-628-240	Sequence 240, Appl	800	17	3	US-08-985-162-442	Sequence 442, Appl
728	1	US-08-435-628-242	Sequence 242, Appl	801	17	3	US-08-985-162-508	Sequence 508, Appl
729	1	US-08-435-628-272	Sequence 272, Appl	802	17	3	US-08-985-162-509	Sequence 509, Appl
730	1	US-08-435-628-446	Sequence 446, Appl	803	17	3	US-08-985-162-510	Sequence 510, Appl
731	1	US-08-435-628-448	Sequence 448, Appl	804	17	3	US-08-985-162-614	Sequence 614, Appl
732	1	US-08-435-628-450	Sequence 450, Appl	805	17	3	US-08-985-162-615	Sequence 615, Appl
733	1	US-08-435-628-452	Sequence 452, Appl	806	17	3	US-08-985-162-616	Sequence 616, Appl
734	1	US-08-435-628-492	Sequence 492, Appl	807	17	3	US-08-985-162-619	Sequence 619, Appl
735	1	US-08-435-628-494	Sequence 494, Appl	808	17	3	US-08-985-162-620	Sequence 620, Appl
736	1	US-08-435-628-1253	Sequence 1253, Ap	809	17	3	US-08-985-162-739	Sequence 739, Appl
737	1	US-08-435-628-1255	Sequence 1255, Ap	810	17	3	US-08-985-162-740	Sequence 740, Appl
738	1	US-08-435-628-1257	Sequence 1257, Ap	811	17	3	US-08-985-162-741	Sequence 741, Appl
739	1	US-08-435-628-1259	Sequence 1259, Ap	812	17	3	US-08-985-162-772	Sequence 772, Appl
740	1	US-08-435-628-1297	Sequence 1297, Ap	813	17	3	US-08-985-162-773	Sequence 773, Appl
741	1	US-08-435-628-1537	Sequence 1537, Ap	814	17	3	US-08-985-162-774	Sequence 774, Appl
742	1	US-08-435-628-1539	Sequence 1539, Ap	815	17	3	US-08-985-162-775	Sequence 775, Appl
743	1	US-08-435-628-1541	Sequence 1541, Ap	816	17	3	US-08-988-706-20	Sequence 20, Appl
744	1	US-08-435-628-1543	Sequence 1543, Ap	817	17	3	US-08-988-706-21	Sequence 21, Appl
745	1	US-08-435-628-2317	Sequence 2317, Ap	818	17	3	US-08-675-566-61	Sequence 61, Appl
746	1	US-08-435-628-2353	Sequence 2353, Ap	819	17	3	US-08-883-610A-5	Sequence 5, Appl
747	1	US-08-435-628-2355	Sequence 2355, Ap	820	17	3	US-08-883-610A-15	Sequence 15, Appl
748	1	US-08-435-628-2357	Sequence 2357, Ap	821	17	3	US-08-998-099-62	Sequence 62, Appl
749	1	US-08-435-628-2499	Sequence 2499, Ap	822	17	3	US-08-922-505A-5	Sequence 5, Appl
750	1	US-08-435-628-2541	Sequence 2541, Ap	823	17	3	US-09-071-845-1633	Sequence 1633, Ap
751	1	US-08-435-628-2543	Sequence 2543, Ap	824	17	3	US-09-071-845-1661	Sequence 1661, Ap
752	1	US-08-435-628-2545	Sequence 2545, Ap	825	17	3	US-09-071-845-1685	Sequence 1685, Ap
753	1	US-08-435-628-2547	Sequence 2547, Ap	826	17	3	US-09-071-845-1686	Sequence 1686, Ap
754	2	US-08-793-107-4	Sequence 4, Appl	827	17	3	US-09-071-845-1687	Sequence 1687, Ap
755	1	US-08-793-107-6	Sequence 6, Appl	828	17	3	US-09-071-845-1738	Sequence 1738, Ap
756	1	US-08-710-134-1	Sequence 1, Appl	829	17	3	US-09-071-845-1831	Sequence 1831, Ap
757	2	US-08-374-652C-69	Sequence 69, Appl	830	17	3	US-09-071-845-1874	Sequence 1874, Ap

831	17	3	US-09-071-845-1881	Sequence 1881, Ap	904	5	100.0	17	4	US-08-584-040-3768	Sequence 3768, Ap
832	17	3	US-09-071-845-1916	Sequence 1916, Ap	905	5	100.0	17	4	US-08-584-040-3769	Sequence 3769, Ap
833	17	3	US-09-071-845-1917	Sequence 1917, Ap	906	5	100.0	17	4	US-08-584-040-3770	Sequence 3770, Ap
834	17	3	US-09-071-845-1923	Sequence 1923, Ap	907	5	100.0	17	4	US-08-584-040-3928	Sequence 3928, Ap
835	17	3	US-09-071-845-1924	Sequence 1924, Ap	908	5	100.0	17	4	US-08-584-040-3929	Sequence 3929, Ap
836	17	3	US-09-071-845-1943	Sequence 1943, Ap	909	5	100.0	17	4	US-08-584-040-3939	Sequence 3939, Ap
837	17	3	US-08-925-818-5	Sequence 5, Appli	910	5	100.0	17	4	US-08-584-040-3940	Sequence 3940, Ap
838	17	3	US-08-760-615-13	Sequence 13, Appli	911	5	100.0	17	4	US-08-584-040-3941	Sequence 3941, Ap
839	17	3	US-09-411-578-7	Sequence 7, Appli	912	5	100.0	17	4	US-08-584-040-3951	Sequence 3951, Ap
840	17	3	US-09-411-578-9	Sequence 9, Appli	913	5	100.0	17	4	US-08-584-040-3971	Sequence 3971, Ap
841	17	3	US-09-411-578-11	Sequence 11, Appli	914	5	100.0	17	4	US-08-584-040-3972	Sequence 3972, Ap
842	17	3	US-09-411-578-13	Sequence 13, Appli	915	5	100.0	17	4	US-08-584-040-4022	Sequence 4022, Ap
843	17	3	US-09-411-578-15	Sequence 15, Appli	916	5	100.0	17	4	US-08-584-040-4023	Sequence 4023, Ap
844	17	3	US-09-411-578-17	Sequence 17, Appli	917	5	100.0	17	4	US-08-584-040-4057	Sequence 4057, Ap
845	17	3	US-09-411-578-19	Sequence 19, Appli	918	5	100.0	17	4	US-08-584-040-4058	Sequence 4058, Ap
846	17	3	US-09-411-578-21	Sequence 21, Appli	919	5	100.0	17	4	US-08-584-040-4120	Sequence 4120, Ap
847	17	3	US-09-411-578-23	Sequence 23, Appli	920	5	100.0	17	4	US-08-584-040-4121	Sequence 4121, Ap
848	17	3	US-09-411-578-25	Sequence 25, Appli	921	5	100.0	17	4	US-08-584-040-4148	Sequence 4148, Ap
849	17	3	US-09-411-578-27	Sequence 27, Appli	922	5	100.0	17	4	US-08-584-040-4149	Sequence 4149, Ap
850	17	3	US-09-411-578-29	Sequence 29, Appli	923	5	100.0	17	4	US-08-584-040-4150	Sequence 4150, Ap
851	17	3	US-09-411-578-31	Sequence 31, Appli	924	5	100.0	17	4	US-08-584-040-4151	Sequence 4151, Ap
852	17	3	US-09-411-578-33	Sequence 33, Appli	925	5	100.0	17	4	US-08-584-040-4152	Sequence 4152, Ap
853	17	3	US-09-411-578-35	Sequence 35, Appli	926	5	100.0	17	4	US-08-584-040-4358	Sequence 4358, Ap
854	17	3	US-09-411-578-37	Sequence 37, Appli	927	5	100.0	17	4	US-08-584-040-4359	Sequence 4359, Ap
855	17	3	US-08-793-660B-20	Sequence 20, Appli	928	5	100.0	17	4	US-08-584-040-5318	Sequence 5318, Ap
856	17	3	US-08-793-660B-21	Sequence 21, Appli	929	5	100.0	17	4	US-08-584-040-5319	Sequence 5319, Ap
857	17	3	US-08-936-094A-5	Sequence 5, Appli	930	5	100.0	17	4	US-08-584-040-5372	Sequence 5372, Ap
858	17	3	US-08-936-094A-17	Sequence 17, Appli	931	5	100.0	17	4	US-08-584-040-5373	Sequence 5373, Ap
859	17	3	US-09-260-952A-5	Sequence 5, Appli	932	5	100.0	17	4	US-08-584-040-5376	Sequence 5376, Ap
860	17	3	US-09-158-765-6	Sequence 6, Appli	933	5	100.0	17	4	US-08-584-040-5377	Sequence 5377, Ap
861	17	3	US-09-158-765-28	Sequence 28, Appli	934	5	100.0	17	4	US-08-584-040-5574	Sequence 5574, Ap
862	17	3	US-09-253-341-5	Sequence 5, Appli	935	5	100.0	17	4	US-08-584-040-5570	Sequence 5570, Ap
863	17	3	US-09-253-341-5	Sequence 5, Appli	936	5	100.0	17	4	US-08-584-040-5722	Sequence 5722, Ap
864	17	3	US-08-803-346-10	Sequence 10, Appli	937	5	100.0	17	4	US-08-584-040-5723	Sequence 5723, Ap
865	17	3	US-09-068-051A-15	Sequence 15, Appli	938	5	100.0	17	4	US-08-584-040-5724	Sequence 5724, Ap
866	17	4	US-07-974-409C-75	Sequence 75, Appli	939	5	100.0	17	4	US-08-584-040-5853	Sequence 5853, Ap
867	17	4	US-09-218-979-9	Sequence 9, Appli	940	5	100.0	17	4	US-08-584-040-5854	Sequence 5854, Ap
868	17	4	US-08-424-991B-11	Sequence 11, Appli	941	5	100.0	17	4	US-08-584-040-5855	Sequence 5855, Ap
869	17	4	US-09-261-040-5	Sequence 5, Appli	942	5	100.0	17	4	US-08-584-040-5856	Sequence 5856, Ap
870	17	4	US-09-007-678B-50	Sequence 50, Appli	943	5	100.0	17	4	US-08-584-040-5857	Sequence 5857, Ap
871	17	4	US-08-584-040-1496	Sequence 1496, Ap	944	5	100.0	17	4	US-08-584-040-5883	Sequence 5883, Ap
872	17	4	US-08-584-040-1497	Sequence 1497, Ap	945	5	100.0	17	4	US-08-584-040-5884	Sequence 5884, Ap
873	17	4	US-08-584-040-1587	Sequence 1587, Ap	946	5	100.0	17	4	US-08-584-040-6085	Sequence 6085, Ap
874	17	4	US-08-584-040-1726	Sequence 1726, Ap	947	5	100.0	17	4	US-08-584-040-6086	Sequence 6086, Ap
875	17	4	US-08-584-040-1727	Sequence 1727, Ap	948	5	100.0	17	4	US-08-584-040-6087	Sequence 6087, Ap
876	17	4	US-08-584-040-1728	Sequence 1728, Ap	949	5	100.0	17	4	US-08-584-040-6088	Sequence 6088, Ap
877	17	4	US-08-584-040-1729	Sequence 1729, Ap	950	5	100.0	17	4	US-08-584-040-6089	Sequence 6089, Ap
878	17	4	US-08-584-040-1754	Sequence 1754, Ap	951	5	100.0	17	4	US-08-584-040-7319	Sequence 7319, Ap
879	17	4	US-08-584-040-1755	Sequence 1755, Ap	952	5	100.0	17	4	US-08-584-040-7449	Sequence 7449, Ap
880	17	4	US-08-584-040-1756	Sequence 1756, Ap	953	5	100.0	17	4	US-08-584-040-7961	Sequence 7961, Ap
881	17	4	US-08-584-040-1921	Sequence 1921, Ap	954	5	100.0	17	4	US-08-584-040-7962	Sequence 7962, Ap
882	17	4	US-08-584-040-2056	Sequence 2056, Ap	955	5	100.0	17	4	US-08-584-040-7963	Sequence 7963, Ap
883	17	4	US-08-584-040-2057	Sequence 2057, Ap	956	5	100.0	17	4	US-08-584-040-8122	Sequence 8122, Ap
884	17	4	US-08-584-040-2209	Sequence 2209, Ap	957	5	100.0	17	4	US-08-679-645-660	Sequence 660, App
885	17	4	US-08-584-040-2217	Sequence 2217, Ap	958	5	100.0	17	4	US-08-679-645-662	Sequence 662, App
886	17	4	US-08-584-040-2346	Sequence 2346, Ap	959	5	100.0	17	4	US-08-679-645-664	Sequence 664, App
887	17	4	US-08-584-040-2347	Sequence 2347, Ap	960	5	100.0	17	4	US-08-679-645-669	Sequence 669, App
888	17	4	US-08-584-040-2634	Sequence 2634, Ap	961	5	100.0	17	4	US-08-679-645-671	Sequence 671, App
889	17	4	US-08-584-040-2635	Sequence 2635, Ap	962	5	100.0	17	4	US-08-679-645-674	Sequence 674, App
890	17	4	US-08-584-040-2636	Sequence 2636, Ap	963	5	100.0	17	4	US-08-679-645-676	Sequence 676, App
891	17	4	US-08-584-040-2637	Sequence 2637, Ap	964	5	100.0	17	4	US-08-679-645-678	Sequence 678, App
892	17	4	US-08-584-040-2638	Sequence 2638, Ap	965	5	100.0	17	4	US-08-679-645-680	Sequence 680, App
893	17	4	US-08-584-040-2740	Sequence 2740, Ap	966	5	100.0	17	4	US-08-679-645-776	Sequence 776, App
894	17	4	US-08-584-040-2741	Sequence 2741, Ap	967	5	100.0	17	4	US-08-679-645-778	Sequence 778, App
895	17	4	US-08-584-040-2742	Sequence 2742, Ap	968	5	100.0	17	4	US-08-679-645-780	Sequence 780, App
896	17	4	US-08-584-040-2743	Sequence 2743, Ap	969	5	100.0	17	4	US-08-679-645-782	Sequence 782, App
897	17	4	US-08-584-040-2744	Sequence 2744, Ap	970	5	100.0	17	4	US-08-679-645-784	Sequence 784, App
898	17	4	US-08-584-040-2837	Sequence 2837, Ap	971	5	100.0	17	4	US-08-793-110-4	Sequence 4, Appli
899	17	4	US-08-584-040-2838	Sequence 2838, Ap	972	5	100.0	17	4	US-08-793-110-6	Sequence 6, Appli
900	17	4	US-08-584-040-2839	Sequence 2839, Ap	973	5	100.0	17	4	US-09-270-140A-54	Sequence 54, Appli
901	17	4	US-08-584-040-2852	Sequence 2852, Ap	974	5	100.0	17	4	US-09-115-475-10	Sequence 10, Appli
902	17	4	US-08-584-040-2853	Sequence 2853, Ap	975	5	100.0	17	4	US-08-793-109-5	Sequence 5, Appli
903	17	4	US-08-584-040-2854	Sequence 2854, Ap	976	5	100.0	17	4	US-08-793-109-7	Sequence 7, Appli

c 977	17	4	US-09-442-143A-40	Sequence 40, Appl	c1050	5	100.0	17	4	US-09-371-772B-1916	Sequence 1916, Ap
978	17	4	US-09-360-416-4	Sequence 4, Appl	c1051	5	100.0	17	4	US-09-371-772B-1917	Sequence 1917, Ap
979	17	4	US-09-060-482-5	Sequence 5, Appl	c1052	5	100.0	17	4	US-09-371-772B-1918	Sequence 1918, Ap
980	17	4	US-09-679-427-9	Sequence 9, Appl	c1053	5	100.0	17	4	US-09-371-772B-1919	Sequence 1919, Ap
981	17	4	US-09-527-030G-92	Sequence 92, Appl	c1054	5	100.0	17	4	US-09-371-772B-2125	Sequence 2125, Ap
982	17	4	US-09-527-030G-107	Sequence 107, Appl	c1055	5	100.0	17	4	US-09-371-772B-2126	Sequence 2126, Ap
c 983	17	4	US-09-479-645A-15	Sequence 15, Appl	c1056	5	100.0	17	4	US-09-371-772B-2220	Sequence 2220, Ap
c 984	17	4	US-09-479-645A-34	Sequence 34, Appl	c1057	5	100.0	17	4	US-09-371-772B-2221	Sequence 2221, Ap
985	17	4	US-09-916-228-10	Sequence 10, Appl	c1058	5	100.0	17	4	US-09-371-772B-2272	Sequence 2272, Ap
986	17	4	US-09-916-228-20	Sequence 20, Appl	c1059	5	100.0	17	4	US-09-371-772B-2273	Sequence 2273, Ap
c 987	17	4	US-09-588-995A-106	Sequence 106, Appl	c1060	5	100.0	17	4	US-09-371-772B-2277	Sequence 2277, Ap
c 988	17	4	US-09-916-956A-5	Sequence 5, Appl	c1061	5	100.0	17	4	US-09-371-772B-2464	Sequence 2464, Ap
c 989	17	4	US-09-673-809-33	Sequence 33, Appl	c1062	5	100.0	17	4	US-09-371-772B-2530	Sequence 2530, Ap
c 990	17	4	US-09-673-809-78	Sequence 78, Appl	c1063	5	100.0	17	4	US-09-371-772B-2604	Sequence 2604, Ap
991	17	4	US-09-474-432B-339	Sequence 339, Appl	c1064	5	100.0	17	4	US-09-371-772B-2605	Sequence 2605, Ap
992	17	4	US-09-474-432B-373	Sequence 373, Appl	c1065	5	100.0	17	4	US-09-371-772B-2606	Sequence 2606, Ap
993	17	4	US-09-474-432B-383	Sequence 383, Appl	c1066	5	100.0	17	4	US-09-371-772B-2712	Sequence 2712, Ap
994	17	4	US-09-474-432B-485	Sequence 485, Appl	c1067	5	100.0	17	4	US-09-371-772B-2713	Sequence 2713, Ap
995	17	4	US-09-474-432B-485	Sequence 485, Appl	c1068	5	100.0	17	4	US-09-371-772B-2714	Sequence 2714, Ap
c 996	17	4	US-09-873-873-5	Sequence 5, Appl	c1069	5	100.0	17	4	US-09-371-772B-2715	Sequence 2715, Ap
c 997	17	4	US-09-254-776B-16	Sequence 16, Appl	c1070	5	100.0	17	4	US-09-371-772B-2716	Sequence 2716, Ap
998	17	4	US-08-415-658-5	Sequence 5, Appl	c1071	5	100.0	17	4	US-09-371-772B-2728	Sequence 2728, Ap
999	17	4	US-09-371-772B-41	Sequence 41, Appl	c1072	5	100.0	17	4	US-09-371-772B-2729	Sequence 2729, Ap
1000	17	4	US-09-371-772B-42	Sequence 42, Appl	c1073	5	100.0	17	4	US-09-371-772B-2922	Sequence 2922, Ap
1001	17	4	US-09-371-772B-132	Sequence 132, Appl	c1074	5	100.0	17	4	US-09-371-772B-2923	Sequence 2923, Ap
1002	17	4	US-09-371-772B-271	Sequence 271, Appl	c1075	5	100.0	17	4	US-09-371-772B-2924	Sequence 2924, Ap
1003	17	4	US-09-371-772B-272	Sequence 272, Appl	c1076	5	100.0	17	4	US-09-371-772B-2925	Sequence 2925, Ap
1004	17	4	US-09-371-772B-273	Sequence 273, Appl	c1077	5	100.0	17	4	US-09-371-772B-2926	Sequence 2926, Ap
1005	17	4	US-09-371-772B-274	Sequence 274, Appl	c1078	5	100.0	17	4	US-09-371-772B-3128	Sequence 3128, Ap
1006	17	4	US-09-371-772B-299	Sequence 299, Appl	c1079	5	100.0	17	4	US-09-371-772B-3255	Sequence 3255, Ap
1007	17	4	US-09-371-772B-300	Sequence 300, Appl	c1080	5	100.0	17	4	US-09-371-772B-3255	Sequence 3255, Ap
1008	17	4	US-09-371-772B-301	Sequence 301, Appl	c1081	5	100.0	17	4	US-09-371-772B-3745	Sequence 3745, Ap
1009	17	4	US-09-371-772B-466	Sequence 466, Appl	c1082	5	100.0	17	4	US-09-371-772B-3746	Sequence 3746, Ap
c1010	17	4	US-09-371-772B-601	Sequence 601, Appl	c1083	5	100.0	17	4	US-09-371-772B-3905	Sequence 3905, Ap
1011	17	4	US-09-371-772B-602	Sequence 602, Appl	c1084	5	100.0	17	4	US-09-371-772B-4235	Sequence 4235, Ap
1012	17	4	US-09-371-772B-754	Sequence 754, Appl	c1085	5	100.0	17	4	US-09-371-772B-4236	Sequence 4236, Ap
1013	17	4	US-09-371-772B-762	Sequence 762, Appl	c1086	5	100.0	17	4	US-09-371-772B-4237	Sequence 4237, Ap
1014	17	4	US-09-371-772B-891	Sequence 891, Appl	c1087	5	100.0	17	4	US-09-371-772B-4238	Sequence 4238, Ap
1015	17	4	US-09-371-772B-892	Sequence 892, Appl	c1088	5	100.0	17	4	US-09-371-772B-4239	Sequence 4239, Ap
1016	17	4	US-09-371-772B-1158	Sequence 1158, Appl	c1089	5	100.0	17	4	US-09-371-772B-4338	Sequence 4338, Ap
1017	17	4	US-09-371-772B-1159	Sequence 1159, Appl	c1090	5	100.0	17	4	US-09-371-772B-4339	Sequence 4339, Ap
1018	17	4	US-09-371-772B-1160	Sequence 1160, Appl	c1091	5	100.0	17	4	US-09-371-772B-4340	Sequence 4340, Ap
1019	17	4	US-09-371-772B-1161	Sequence 1161, Appl	c1092	5	100.0	17	4	US-09-371-772B-4341	Sequence 4341, Ap
1020	17	4	US-09-371-772B-1162	Sequence 1162, Appl	c1093	5	100.0	17	4	US-09-371-772B-4500	Sequence 4500, Ap
c1021	17	4	US-09-371-772B-1264	Sequence 1264, Appl	c1094	5	100.0	17	4	US-09-371-772B-4501	Sequence 4501, Ap
c1022	17	4	US-09-371-772B-1265	Sequence 1265, Appl	c1095	5	100.0	17	4	US-09-371-772B-4528	Sequence 4528, Ap
c1023	17	4	US-09-371-772B-1266	Sequence 1266, Appl	c1096	5	100.0	17	4	US-09-371-772B-4529	Sequence 4529, Ap
c1024	17	4	US-09-371-772B-1267	Sequence 1267, Appl	c1097	5	100.0	17	4	US-09-371-772B-4530	Sequence 4530, Ap
c1025	17	4	US-09-371-772B-1268	Sequence 1268, Appl	c1098	5	100.0	17	4	US-09-371-772B-4742	Sequence 4742, Ap
1026	17	4	US-09-371-772B-1361	Sequence 1361, Appl	c1099	5	100.0	17	4	US-09-371-772B-4743	Sequence 4743, Ap
1027	17	4	US-09-371-772B-1362	Sequence 1362, Appl	c1100	5	100.0	17	4	US-09-371-772B-4744	Sequence 4744, Ap
1028	17	4	US-09-371-772B-1363	Sequence 1363, Appl	c1101	5	100.0	17	4	US-09-371-772B-4745	Sequence 4745, Ap
c1029	17	4	US-09-371-772B-1376	Sequence 1376, Appl	c1102	5	100.0	17	4	US-09-371-772B-4746	Sequence 4746, Ap
c1030	17	4	US-09-371-772B-1377	Sequence 1377, Appl	c1103	5	100.0	17	4	US-09-371-772B-4747	Sequence 4747, Ap
c1031	17	4	US-09-371-772B-1378	Sequence 1378, Appl	c1104	5	100.0	17	4	US-09-371-772B-4904	Sequence 4904, Ap
1032	17	4	US-09-371-772B-1535	Sequence 1535, Appl	c1105	5	100.0	17	4	US-09-371-772B-4905	Sequence 4905, Ap
1033	17	4	US-09-371-772B-1536	Sequence 1536, Appl	c1106	5	100.0	17	4	US-09-371-772B-4906	Sequence 4906, Ap
1034	17	4	US-09-371-772B-1537	Sequence 1537, Appl	c1107	5	100.0	17	4	US-09-371-772B-4907	Sequence 4907, Ap
1035	17	4	US-09-371-772B-1695	Sequence 1695, Appl	c1108	5	100.0	17	4	US-09-371-772B-4908	Sequence 4908, Ap
1036	17	4	US-09-371-772B-1696	Sequence 1696, Appl	c1109	5	100.0	17	4	US-09-371-772B-5077	Sequence 5077, Ap
1037	17	4	US-09-371-772B-1706	Sequence 1706, Appl	c1110	5	100.0	17	4	US-09-371-772B-5078	Sequence 5078, Ap
1038	17	4	US-09-371-772B-1707	Sequence 1707, Appl	c1111	5	100.0	17	4	US-09-371-772B-5079	Sequence 5079, Ap
1039	17	4	US-09-371-772B-1708	Sequence 1708, Appl	c1112	5	100.0	17	4	US-09-371-772B-5080	Sequence 5080, Ap
c1040	17	4	US-09-371-772B-1718	Sequence 1718, Appl	c1113	5	100.0	17	4	US-09-371-772B-5103	Sequence 5103, Ap
c1041	17	4	US-09-371-772B-1738	Sequence 1738, Appl	c1114	5	100.0	17	4	US-09-371-772B-5104	Sequence 5104, Ap
c1042	17	4	US-09-371-772B-1739	Sequence 1739, Appl	c1115	5	100.0	17	4	US-09-371-772B-5105	Sequence 5105, Ap
1043	17	4	US-09-371-772B-1789	Sequence 1789, Appl	c1116	5	100.0	17	4	US-09-371-772B-5106	Sequence 5106, Ap
1044	17	4	US-09-371-772B-1790	Sequence 1790, Appl	c1117	5	100.0	17	4	US-09-371-772B-5107	Sequence 5107, Ap
c1045	17	4	US-09-371-772B-1824	Sequence 1824, Appl	c1118	5	100.0	17	4	US-09-371-772B-5259	Sequence 5259, Ap
c1046	17	4	US-09-371-772B-1825	Sequence 1825, Appl	c1119	5	100.0	17	4	US-09-371-772B-5260	Sequence 5260, Ap
c1047	17	4	US-09-371-772B-1887	Sequence 1887, Appl	c1120	5	100.0	17	4	US-09-371-772B-5261	Sequence 5261, Ap
c1048	17	4	US-09-371-772B-1888	Sequence 1888, Appl	c1121	5	100.0	17	4	US-09-371-772B-5262	Sequence 5262, Ap
c1049	17	4	US-09-371-772B-1915	Sequence 1915, Appl	c1122	5	100.0	17	4	US-09-371-772B-5263	Sequence 5263, Ap

1123	17	4	US-09-371-772B-5490	Sequence 5490, App	c1196	5	100.0	17	4	US-09-401-063-741	Sequence 741, App
1124	17	4	US-09-371-772B-5491	Sequence 5491, App	1197	5	100.0	17	4	US-09-401-063-772	Sequence 772, App
1125	17	4	US-09-371-772B-5492	Sequence 5492, App	1198	5	100.0	17	4	US-09-401-063-773	Sequence 773, App
1126	17	4	US-09-371-772B-5562	Sequence 5562, App	1199	5	100.0	17	4	US-09-401-063-774	Sequence 774, App
1127	17	4	US-09-371-772B-5605	Sequence 5605, App	1200	5	100.0	17	4	US-09-401-063-775	Sequence 775, App
1128	17	4	US-09-371-772B-5606	Sequence 5606, App	c1201	5	100.0	17	4	US-09-997-914-5	Sequence 5, Appl1
1129	17	4	US-09-371-772B-5620	Sequence 5620, App	c1202	5	100.0	17	4	US-09-749-233-7	Sequence 7, Appl1
1130	17	4	US-09-371-772B-6154	Sequence 6154, App	c1203	5	100.0	17	4	US-09-749-233-9	Sequence 9, Appl1
1131	17	4	US-09-371-772B-6155	Sequence 6155, App	c1204	5	100.0	17	4	US-09-749-233-11	Sequence 11, Appl1
1132	17	4	US-09-371-772B-6156	Sequence 6156, App	c1205	5	100.0	17	4	US-09-749-233-13	Sequence 13, Appl1
1133	17	4	US-09-371-772B-6320	Sequence 6320, App	c1206	5	100.0	17	4	US-09-749-233-15	Sequence 15, Appl1
1134	17	4	US-09-371-772B-6321	Sequence 6321, App	c1207	5	100.0	17	4	US-09-749-233-17	Sequence 17, Appl1
1135	17	4	US-09-371-772B-6322	Sequence 6322, App	c1208	5	100.0	17	4	US-09-749-233-19	Sequence 19, Appl1
1136	17	4	US-09-371-772B-6332	Sequence 6332, App	c1209	5	100.0	17	4	US-09-749-233-21	Sequence 21, Appl1
1137	17	4	US-09-371-772B-6333	Sequence 6332, App	c1210	5	100.0	17	4	US-09-749-233-23	Sequence 23, Appl1
1138	17	4	US-09-371-772B-6333	Sequence 6333, App	c1211	5	100.0	17	4	US-09-749-233-25	Sequence 25, Appl1
1139	17	4	US-09-371-772B-6334	Sequence 6334, App	c1212	5	100.0	17	4	US-09-749-233-27	Sequence 27, Appl1
1140	17	4	US-09-371-772B-6335	Sequence 6335, App	c1213	5	100.0	17	4	US-09-749-233-29	Sequence 29, Appl1
1141	17	4	US-09-371-772B-6336	Sequence 6336, App	c1214	5	100.0	17	4	US-09-749-233-31	Sequence 31, Appl1
1142	17	4	US-09-371-772B-6337	Sequence 6337, App	c1215	5	100.0	17	4	US-09-749-233-33	Sequence 33, Appl1
1143	17	4	US-09-371-772B-6338	Sequence 6338, App	c1216	5	100.0	17	4	US-09-749-233-35	Sequence 35, Appl1
1144	17	4	US-09-371-772B-6350	Sequence 6350, App	c1217	5	100.0	17	4	US-09-749-233-37	Sequence 37, Appl1
1145	17	4	US-09-371-772B-6351	Sequence 6351, App	c1218	5	100.0	17	4	US-09-866-108A-2068	Sequence 2068, Ap
1146	17	4	US-09-371-772B-6352	Sequence 6352, App	c1219	5	100.0	17	4	US-09-866-108A-2069	Sequence 2069, Ap
1147	17	4	US-09-371-772B-6384	Sequence 6384, App	c1220	5	100.0	17	4	US-09-866-108A-2070	Sequence 2070, Ap
1148	17	4	US-09-371-772B-6385	Sequence 6385, App	c1221	5	100.0	17	4	US-09-866-108A-2071	Sequence 2071, Ap
1149	17	4	US-09-371-772B-6459	Sequence 6459, App	c1222	5	100.0	17	4	US-09-866-108A-2072	Sequence 2072, Ap
1150	17	4	US-09-371-772B-6460	Sequence 6460, App	c1223	5	100.0	17	4	US-09-866-108A-2073	Sequence 2073, Ap
1151	17	4	US-09-371-772B-6461	Sequence 6461, App	c1224	5	100.0	17	4	US-09-866-108A-2074	Sequence 2074, Ap
1152	17	4	US-09-371-772B-6462	Sequence 6462, App	c1225	5	100.0	17	4	US-09-866-108A-2075	Sequence 2075, Ap
1153	17	4	US-09-371-772B-6463	Sequence 6463, App	c1226	5	100.0	17	4	US-09-866-108A-2076	Sequence 2076, Ap
1154	17	4	US-09-371-772B-6464	Sequence 6464, App	c1227	5	100.0	17	4	US-09-866-108A-2077	Sequence 2077, Ap
1155	17	4	US-09-371-772B-6518	Sequence 6518, App	c1228	5	100.0	17	4	US-09-866-108A-2078	Sequence 2078, Ap
1156	17	4	US-09-371-772B-6581	Sequence 6581, App	c1229	5	100.0	17	4	US-09-866-108A-2079	Sequence 2079, Ap
1157	17	4	US-09-371-772B-6582	Sequence 6582, App	c1230	5	100.0	17	4	US-09-866-108A-2080	Sequence 2080, Ap
1158	17	4	US-09-371-772B-6592	Sequence 6592, App	c1231	5	100.0	17	4	US-09-866-108A-2457	Sequence 2457, Ap
1159	17	4	US-09-371-772B-6593	Sequence 6593, App	c1232	5	100.0	17	4	US-09-866-108A-2458	Sequence 2458, Ap
1160	17	4	US-09-371-772B-6594	Sequence 6594, App	c1233	5	100.0	17	4	US-09-866-108A-2459	Sequence 2459, Ap
1161	17	4	US-09-371-772B-6595	Sequence 6595, App	c1234	5	100.0	17	4	US-09-866-108A-2460	Sequence 2460, Ap
1162	17	4	US-09-371-772B-6644	Sequence 6644, App	c1235	5	100.0	17	4	US-09-866-108A-2461	Sequence 2461, Ap
1163	17	4	US-09-371-772B-6645	Sequence 6645, App	c1236	5	100.0	17	4	US-09-866-108A-2462	Sequence 2462, Ap
1164	17	4	US-09-796-071-6	Sequence 6, Appl1	c1237	5	100.0	17	4	US-09-866-108A-2463	Sequence 2463, Ap
1165	17	4	US-09-462-720-5	Sequence 2, Appl1	c1238	5	100.0	17	4	US-09-866-108A-2464	Sequence 2464, Ap
1166	17	4	US-09-476-387-338	Sequence 338, App	c1239	5	100.0	17	4	US-09-866-108A-2465	Sequence 2465, Ap
1167	17	4	US-09-476-387-372	Sequence 372, App	c1240	5	100.0	17	4	US-09-866-108A-2466	Sequence 2466, Ap
1168	17	4	US-09-476-387-382	Sequence 382, App	c1241	5	100.0	17	4	US-09-866-108A-2467	Sequence 2467, Ap
1169	17	4	US-09-476-387-484	Sequence 484, App	c1242	5	100.0	17	4	US-09-866-108A-2468	Sequence 2468, Ap
1170	17	4	US-09-476-387-652	Sequence 652, App	c1243	5	100.0	17	4	US-09-866-108A-2469	Sequence 2469, Ap
1171	17	4	US-09-611-627-18	Sequence 18, Appl1	c1244	5	100.0	17	4	US-09-866-108A-7052	Sequence 7052, Ap
1172	17	4	US-09-401-063-101	Sequence 101, App	c1245	5	100.0	17	4	US-09-866-108A-7053	Sequence 7053, Ap
1173	17	4	US-09-401-063-128	Sequence 128, App	c1246	5	100.0	17	4	US-09-866-108A-7054	Sequence 7054, Ap
1174	17	4	US-09-401-063-129	Sequence 129, App	c1247	5	100.0	17	4	US-09-866-108A-7055	Sequence 7055, Ap
1175	17	4	US-09-401-063-130	Sequence 130, App	c1248	5	100.0	17	4	US-09-866-108A-7056	Sequence 7056, Ap
1176	17	4	US-09-401-063-129	Sequence 129, App	c1249	5	100.0	17	4	US-09-866-108A-7057	Sequence 7057, Ap
1177	17	4	US-09-401-063-298	Sequence 298, App	c1250	5	100.0	17	4	US-09-866-108A-7058	Sequence 7058, Ap
1178	17	4	US-09-401-063-299	Sequence 299, App	c1251	5	100.0	17	4	US-09-866-108A-7059	Sequence 7059, Ap
1179	17	4	US-09-401-063-300	Sequence 300, App	c1252	5	100.0	17	4	US-09-866-108A-7060	Sequence 7060, Ap
1180	17	4	US-09-401-063-317	Sequence 317, App	c1253	5	100.0	17	4	US-09-866-108A-7061	Sequence 7061, Ap
1181	17	4	US-09-401-063-318	Sequence 318, App	c1254	5	100.0	17	4	US-09-866-108A-7062	Sequence 7062, Ap
1182	17	4	US-09-401-063-439	Sequence 439, App	c1255	5	100.0	17	4	US-09-866-108A-7063	Sequence 7063, Ap
1183	17	4	US-09-401-063-440	Sequence 440, App	c1256	5	100.0	17	4	US-09-866-108A-7064	Sequence 7064, Ap
1184	17	4	US-09-401-063-441	Sequence 441, App	c1257	5	100.0	17	4	US-09-866-108A-8222	Sequence 8222, Ap
1185	17	4	US-09-401-063-442	Sequence 442, App	c1258	5	100.0	17	4	US-09-866-108A-8223	Sequence 8223, Ap
1186	17	4	US-09-401-063-508	Sequence 508, App	c1259	5	100.0	17	4	US-09-866-108A-8224	Sequence 8224, Ap
1187	17	4	US-09-401-063-509	Sequence 509, App	c1260	5	100.0	17	4	US-09-866-108A-8225	Sequence 8225, Ap
1188	17	4	US-09-401-063-510	Sequence 510, App	c1261	5	100.0	17	4	US-09-866-108A-8226	Sequence 8226, Ap
1189	17	4	US-09-401-063-614	Sequence 614, App	c1262	5	100.0	17	4	US-09-866-108A-8227	Sequence 8227, Ap
1190	17	4	US-09-401-063-615	Sequence 615, App	c1263	5	100.0	17	4	US-09-866-108A-8228	Sequence 8228, Ap
1191	17	4	US-09-401-063-616	Sequence 616, App	c1264	5	100.0	17	4	US-09-866-108A-8229	Sequence 8229, Ap
1192	17	4	US-09-401-063-619	Sequence 619, App	c1265	5	100.0	17	4	US-09-866-108A-8230	Sequence 8230, Ap
1193	17	4	US-09-401-063-620	Sequence 620, App	c1266	5	100.0	17	4	US-09-866-108A-8231	Sequence 8231, Ap
1194	17	4	US-09-401-063-739	Sequence 739, App	c1267	5	100.0	17	4	US-09-866-108A-8232	Sequence 8232, Ap
1195	17	4	US-09-401-063-740	Sequence 740, App	c1268	5	100.0	17	4	US-09-866-108A-8233	Sequence 8233, Ap

c1269	17	4	US-09-866-108A-8234	Sequence 8234, Ap	1342	5	100.0	18	1	US-08-061-697-14	Sequence 14, Appl
c1270	17	4	US-09-866-108A-8618	Sequence 8618, Ap	1343	5	100.0	18	1	US-08-031-143B-34	Sequence 34, Appl
c1271	17	4	US-09-866-108A-8619	Sequence 8619, Ap	c1344	5	100.0	18	1	US-08-050-232-12	Sequence 12, Appl
c1272	17	4	US-09-866-108A-8620	Sequence 8620, Ap	1345	5	100.0	18	1	US-08-131-365B-14	Sequence 14, Appl
c1273	17	4	US-09-866-108A-8621	Sequence 8621, Ap	c1346	5	100.0	18	1	US-08-239-924-4	Sequence 4, Appl
c1274	17	4	US-09-866-108A-8622	Sequence 8622, Ap	1347	5	100.0	18	1	US-08-235-503B-17	Sequence 17, Appl
c1275	17	4	US-09-866-108A-8623	Sequence 8623, Ap	1348	5	100.0	18	1	US-08-216-276A-2	Sequence 2, Appl
c1276	17	4	US-09-866-108A-8624	Sequence 8624, Ap	c1349	5	100.0	18	1	US-08-455-116-6	Sequence 6, Appl
c1277	17	4	US-09-866-108A-8625	Sequence 8625, Ap	1350	5	100.0	18	1	US-08-455-116-12	Sequence 12, Appl
c1278	17	4	US-09-866-108A-8626	Sequence 8626, Ap	1351	5	100.0	18	1	US-08-456-923-1	Sequence 1, Appl
c1279	17	4	US-09-866-108A-8627	Sequence 8627, Ap	1352	5	100.0	18	1	US-08-373-124A-35	Sequence 35, Appl
c1280	17	4	US-09-866-108A-8628	Sequence 8628, Ap	1353	5	100.0	18	1	US-08-488-212A-15	Sequence 15, Appl
c1281	17	4	US-09-866-108A-8629	Sequence 8629, Ap	c1354	5	100.0	18	1	US-08-143-219-5	Sequence 5, Appl
c1282	17	4	US-09-866-108A-8630	Sequence 8630, Ap	1355	5	100.0	18	1	US-08-143-219-19	Sequence 19, Appl
c1283	17	4	US-09-866-108A-9370	Sequence 9370, Ap	1356	5	100.0	18	1	US-08-221-078A-11	Sequence 11, Appl
c1284	17	4	US-09-866-108A-9371	Sequence 9371, Ap	c1357	5	100.0	18	1	US-08-411-796-329	Sequence 329, Appl
c1285	17	4	US-09-866-108A-9372	Sequence 9372, Ap	1358	5	100.0	18	1	US-08-479-939-51	Sequence 51, Appl
c1286	17	4	US-09-866-108A-9373	Sequence 9373, Ap	c1359	5	100.0	18	1	US-08-445-289B-27	Sequence 27, Appl
c1287	17	4	US-09-866-108A-9374	Sequence 9374, Ap	1360	5	100.0	18	1	US-08-361-479-29	Sequence 29, Appl
c1288	17	4	US-09-866-108A-9375	Sequence 9375, Ap	c1361	5	100.0	18	1	US-08-361-479-31	Sequence 31, Appl
c1289	17	4	US-09-866-108A-9376	Sequence 9376, Ap	1362	5	100.0	18	1	US-08-361-479-32	Sequence 32, Appl
c1290	17	4	US-09-866-108A-9377	Sequence 9377, Ap	c1363	5	100.0	18	1	US-08-361-479-33	Sequence 33, Appl
c1291	17	4	US-09-866-108A-9378	Sequence 9378, Ap	1364	5	100.0	18	1	US-08-464-136-38	Sequence 38, Appl
c1292	17	4	US-09-866-108A-9379	Sequence 9379, Ap	c1365	5	100.0	18	1	US-08-796-883-5	Sequence 5, Appl
c1293	17	4	US-09-866-108A-9380	Sequence 9380, Ap	1366	5	100.0	18	1	US-08-473-576-29	Sequence 29, Appl
c1294	17	4	US-09-866-108A-9381	Sequence 9381, Ap	c1367	5	100.0	18	1	US-08-473-576-31	Sequence 31, Appl
c1295	17	4	US-09-866-108A-9382	Sequence 9382, Ap	1368	5	100.0	18	1	US-08-473-576-32	Sequence 32, Appl
c1296	17	4	US-09-866-108A-9396	Sequence 9396, Ap	c1369	5	100.0	18	1	US-08-473-576-33	Sequence 33, Appl
c1297	17	4	US-09-866-108A-9397	Sequence 9397, Ap	c1370	5	100.0	18	1	US-08-483-432-51	Sequence 51, Appl
c1298	17	4	US-09-866-108A-9398	Sequence 9398, Ap	1371	5	100.0	18	1	US-08-345-861-16	Sequence 16, Appl
c1299	17	4	US-09-866-108A-9399	Sequence 9399, Ap	1372	5	100.0	18	1	US-08-440-787A-19	Sequence 19, Appl
c1300	17	4	US-09-866-108A-9400	Sequence 9400, Ap	1373	5	100.0	18	1	US-08-440-787A-40	Sequence 40, Appl
c1301	17	4	US-09-866-108A-9401	Sequence 9401, Ap	1374	5	100.0	18	1	US-08-753-054-20	Sequence 20, Appl
c1302	17	4	US-09-866-108A-9402	Sequence 9402, Ap	c1375	5	100.0	18	1	US-08-727-003A-40	Sequence 40, Appl
c1303	17	4	US-09-866-108A-9403	Sequence 9403, Ap	1376	5	100.0	18	1	US-08-761-131-3	Sequence 3, Appl
c1304	17	4	US-09-866-108A-9404	Sequence 9404, Ap	1377	5	100.0	18	1	US-08-758-306-505	Sequence 505, Appl
c1305	17	4	US-09-866-108A-9405	Sequence 9405, Ap	c1378	5	100.0	18	1	US-08-758-306-539	Sequence 539, Appl
c1306	17	4	US-09-866-108A-9406	Sequence 9406, Ap	1379	5	100.0	18	1	US-08-311-486C-1068	Sequence 1068, Ap
c1307	17	4	US-09-866-108A-9407	Sequence 9407, Ap	c1380	5	100.0	18	1	US-08-311-486C-1078	Sequence 1078, Ap
c1308	17	4	US-09-866-108A-9408	Sequence 9408, Ap	1381	5	100.0	18	1	US-08-435-628-35	Sequence 35, Appl
c1309	17	4	US-09-866-108A-9895	Sequence 9895, Ap	c1382	5	100.0	18	1	US-08-661-767-12	Sequence 12, Appl
c1310	17	4	US-09-866-108A-9896	Sequence 9896, Ap	1383	5	100.0	18	1	US-08-468-580-27	Sequence 27, Appl
c1311	17	4	US-09-866-108A-9897	Sequence 9897, Ap	1384	5	100.0	18	2	US-08-514-921-37	Sequence 37, Appl
c1312	17	4	US-09-866-108A-9898	Sequence 9898, Ap	c1385	5	100.0	18	2	US-08-453-848-26	Sequence 26, Appl
c1313	17	4	US-09-866-108A-9899	Sequence 9899, Ap	1386	5	100.0	18	2	US-08-843-718-29	Sequence 29, Appl
c1314	17	4	US-09-866-108A-9900	Sequence 9900, Ap	c1387	5	100.0	18	2	US-08-843-718-31	Sequence 31, Appl
c1315	17	4	US-09-866-108A-9901	Sequence 9901, Ap	1388	5	100.0	18	2	US-08-843-718-32	Sequence 32, Appl
c1316	17	4	US-09-866-108A-9902	Sequence 9902, Ap	c1389	5	100.0	18	2	US-08-843-718-33	Sequence 33, Appl
c1317	17	4	US-09-866-108A-9903	Sequence 9903, Ap	1390	5	100.0	18	2	US-08-676-279-19	Sequence 19, Appl
c1318	17	4	US-09-866-108A-9904	Sequence 9904, Ap	c1391	5	100.0	18	2	US-08-349-131-38	Sequence 38, Appl
c1319	17	4	US-09-866-108A-9905	Sequence 9905, Ap	1392	5	100.0	18	2	US-08-880-557-18	Sequence 18, Appl
c1320	17	4	US-09-866-108A-9906	Sequence 9906, Ap	c1393	5	100.0	18	2	US-08-880-557-19	Sequence 19, Appl
c1321	17	4	US-09-866-108A-9907	Sequence 9907, Ap	1394	5	100.0	18	2	US-08-585-684B-2638	Sequence 2638, Ap
c1322	17	5	PCT-US91-01574-16	Sequence 16, Appl	c1395	5	100.0	18	2	US-08-585-684B-2639	Sequence 2639, Ap
c1323	17	5	PCT-US91-03056-13	Sequence 13, Appl	1396	5	100.0	18	2	US-08-320-306-15	Sequence 15, Appl
c1324	17	5	PCT-US93-00977-75	Sequence 75, Appl	1397	5	100.0	18	2	US-08-668-123-14	Sequence 14, Appl
c1325	17	5	PCT-US93-05701-22	Sequence 22, Appl	1398	5	100.0	18	2	US-08-873-479-53	Sequence 53, Appl
c1326	17	5	PCT-US93-05701-23	Sequence 23, Appl	c1399	5	100.0	18	2	US-08-479-105A-16	Sequence 16, Appl
c1327	17	5	PCT-US93-11582-2	Sequence 2, Appl	1400	5	100.0	18	2	US-08-634-350-21	Sequence 21, Appl
c1328	17	5	PCT-US95-07844-8	Sequence 8, Appl	1401	5	100.0	18	2	US-08-774-104A-6	Sequence 6, Appl
c1329	17	5	PCT-US96-07795-39	Sequence 39, Appl	1402	5	100.0	18	2	US-08-488-209B-15	Sequence 15, Appl
c1330	17	5	PCT-US96-07796-39	Sequence 39, Appl	1403	5	100.0	18	2	US-08-408-011-15	Sequence 15, Appl
c1331	17	6	5182195-43	Patent No. 5182195	c1404	5	100.0	18	2	US-08-974-565C-13	Sequence 13, Appl
c1332	17	6	5486454-12	Patent No. 5486454	1405	5	100.0	18	2	US-09-156-424-28	Sequence 28, Appl
c1333	18	1	US-07-767-135-5	Sequence 5, Appl	c1406	5	100.0	18	2	US-09-205-922-38	Sequence 38, Appl
c1334	18	1	US-07-841-652-12	Sequence 12, Appl	1407	5	100.0	18	2	US-08-718-538-18	Sequence 18, Appl
c1335	18	1	US-07-689-008-15	Sequence 15, Appl	c1408	5	100.0	18	2	US-08-687-865A-5	Sequence 5, Appl
c1336	18	1	US-07-903-466-10	Sequence 10, Appl	1409	5	100.0	18	2	US-08-928-692-35	Sequence 35, Appl
c1337	18	1	US-07-903-466-27	Sequence 27, Appl	1410	5	100.0	18	2	US-09-205-204-19	Sequence 19, Appl
c1338	18	1	US-08-126-564A-30	Sequence 30, Appl	c1411	5	100.0	18	2	US-09-205-204-29	Sequence 29, Appl
c1339	18	1	US-08-361-920-51	Sequence 51, Appl	1412	5	100.0	18	2	US-09-205-204-38	Sequence 38, Appl
c1340	18	1	US-08-070-328A-6	Sequence 6, Appl	1413	5	100.0	18	2	US-09-212-771-15	Sequence 15, Appl
c1341	18	1	US-08-070-328A-12	Sequence 12, Appl	c1414	5	100.0	18	2	US-09-197-360-14	Sequence 14, Appl



1415 5 100.0 18 2 US-09-197-360-25 Sequence 25, Appl  
c1416 5 100.0 18 2 US-08-613-235-12 Sequence 12, Appl  
1417 5 100.0 18 2 US-08-318-856A-84 Sequence 84, Appl  
1418 5 100.0 18 2 US-08-318-856A-85 Sequence 85, Appl  
1419 5 100.0 18 2 US-09-108-837-3 Sequence 3, Appl  
c1420 5 100.0 18 2 US-08-771-602D-24 Sequence 24, Appl  
c1421 5 100.0 18 2 US-08-531-864-5 Sequence 5, Appl  
c1422 5 100.0 18 2 US-09-205-860-66 Sequence 66, Appl  
1423 5 100.0 18 2 US-09-200-141-35 Sequence 35, Appl  
1424 5 100.0 18 2 US-09-213-768-17 Sequence 17, Appl  
1425 5 100.0 18 2 US-09-213-768-18 Sequence 18, Appl  
c1426 5 100.0 18 2 US-09-213-768-26 Sequence 26, Appl  
c1427 5 100.0 18 2 US-08-373-636C-5 Sequence 5, Appl  
c1428 5 100.0 18 3 US-09-156-253-40 Sequence 40, Appl  
1429 5 100.0 18 3 US-09-138-024-23 Sequence 23, Appl  
c1430 5 100.0 18 3 US-09-161-244-20 Sequence 20, Appl  
1431 5 100.0 18 3 US-09-161-244-23 Sequence 23, Appl  
c1432 5 100.0 18 3 US-09-161-244-69 Sequence 69, Appl  
1433 5 100.0 18 3 US-09-161-244-81 Sequence 81, Appl  
1434 5 100.0 18 3 US-08-696-497B-7 Sequence 7, Appl  
1435 5 100.0 18 3 US-09-106-038A-44 Sequence 44, Appl  
c1436 5 100.0 18 3 US-09-106-038A-58 Sequence 58, Appl  
1437 5 100.0 18 3 US-09-205-921-45 Sequence 45, Appl  
1438 5 100.0 18 3 US-09-255-893-10 Sequence 10, Appl  
1439 5 100.0 18 3 US-09-255-911-8 Sequence 8, Appl  
c1440 5 100.0 18 3 US-09-255-911-37 Sequence 37, Appl  
1441 5 100.0 18 3 US-09-255-888-12 Sequence 12, Appl  
1442 5 100.0 18 3 US-09-255-888-24 Sequence 24, Appl  
c1443 5 100.0 18 3 US-09-289-376-29 Sequence 29, Appl  
1444 5 100.0 18 3 US-09-289-376-46 Sequence 46, Appl  
1445 5 100.0 18 3 US-09-357-072-21 Sequence 21, Appl  
1446 5 100.0 18 3 US-08-875-540-3 Sequence 3, Appl  
c1447 5 100.0 18 3 US-08-471-039-329 Sequence 329, Appl  
1448 5 100.0 18 3 US-09-358-381-45 Sequence 45, Appl  
c1449 5 100.0 18 3 US-08-811-177A-7 Sequence 7, Appl  
1450 5 100.0 18 3 US-09-339-964-10 Sequence 10, Appl  
1451 5 100.0 18 3 US-09-339-964-39 Sequence 39, Appl  
1452 5 100.0 18 3 US-08-544-381B-55 Sequence 55, Appl  
1453 5 100.0 18 3 US-08-470-297A-38 Sequence 38, Appl  
c1454 5 100.0 18 3 US-09-014-065-5 Sequence 5, Appl  
c1455 5 100.0 18 3 US-09-255-912-38 Sequence 38, Appl  
1456 5 100.0 18 3 US-09-344-520-13 Sequence 13, Appl  
1457 5 100.0 18 3 US-09-344-520-15 Sequence 15, Appl  
1458 5 100.0 18 3 US-09-344-520-16 Sequence 16, Appl  
1459 5 100.0 18 3 US-09-344-520-22 Sequence 22, Appl  
1460 5 100.0 18 3 US-09-256-452-9 Sequence 9, Appl  
1461 5 100.0 18 3 US-09-256-465-16 Sequence 16, Appl  
1462 5 100.0 18 3 US-08-180-470-43 Sequence 43, Appl  
1463 5 100.0 18 3 US-08-180-470-44 Sequence 44, Appl  
1464 5 100.0 18 3 US-08-180-470-45 Sequence 45, Appl  
c1465 5 100.0 18 3 US-08-180-470-46 Sequence 46, Appl  
c1466 5 100.0 18 3 US-08-485-942A-57 Sequence 57, Appl  
1467 5 100.0 18 3 US-08-676-818-20 Sequence 20, Appl  
c1468 5 100.0 18 3 US-08-602-506A-5 Sequence 5, Appl  
c1469 5 100.0 18 3 US-08-850-613A-5 Sequence 5, Appl  
c1470 5 100.0 18 3 US-09-189-583-18 Sequence 18, Appl  
c1471 5 100.0 18 3 US-09-189-583-19 Sequence 19, Appl  
c1472 5 100.0 18 3 US-09-339-775-30 Sequence 30, Appl  
1473 5 100.0 18 3 US-09-339-775-43 Sequence 43, Appl  
1474 5 100.0 18 3 US-08-867-381A-23 Sequence 23, Appl  
1475 5 100.0 18 3 US-08-462-778-3 Sequence 3, Appl  
c1476 5 100.0 18 3 US-09-143-212-66 Sequence 66, Appl  
1477 5 100.0 18 3 US-09-143-212-75 Sequence 75, Appl  
1478 5 100.0 18 3 US-09-043-085-12 Sequence 12, Appl  
c1479 5 100.0 18 3 US-09-043-085-36 Sequence 36, Appl  
1480 5 100.0 18 3 US-08-559-205-14 Sequence 14, Appl  
c1481 5 100.0 18 3 US-09-009-913-238 Sequence 238, Appl  
1482 5 100.0 18 3 US-08-467-023-12 Sequence 12, Appl  
c1483 5 100.0 18 3 US-08-467-023-17 Sequence 17, Appl  
1484 5 100.0 18 3 US-08-675-566-78 Sequence 78, Appl  
1485 5 100.0 18 3 US-08-846-020A-30 Sequence 30, Appl  
1486 5 100.0 18 3 US-08-912-272-101 Sequence 101, Appl  
c1487 5 100.0 18 3 US-09-290-449-7 Sequence 7, Appl

Sequence 46, Appl  
Sequence 89, Appl  
Sequence 2, Appl  
Sequence 25, Appl  
Sequence 26, Appl  
Sequence 72, Appl  
Sequence 9, Appl  
Sequence 107, Appl  
Sequence 1, Appl  
Sequence 57, Appl  
Sequence 57, Appl  
Sequence 33, Appl

## ALIGNMENTS

RESULT 1  
US-08-630-019A-45  
; Sequence 45, Application US/08630019A  
; Patent No. 6015710  
; GENERAL INFORMATION:  
; APPLICANT: Shay, Jerry W.  
; APPLICANT: Wright, Woodring E.  
; APPLICANT: Piatyszek, Mieczyslaw A.  
; APPLICANT: Corey, David  
; APPLICANT: No. 6015710ton, James C.  
; TITLE OF INVENTION: Modulation of Mammalian Telomerase by  
; TITLE OF INVENTION: Peptide Nucleic Acids  
; NUMBER OF SEQUENCES: 46  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/630,019A  
; FILING DATE: 09-JUN-1996  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Storella, John R.  
; REGISTRATION NUMBER: 32,944  
; REFERENCE/DOCKET NUMBER: 015389-0016000US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 45:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
US-08-630-019A-45

Query Match 100.0%; Score 5; DB 3; Length 5;  
Best Local Similarity 100.0%; Pred. No. 1e+08;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CCAAT 5  
Db 1 CCAAT 5

RESULT 2



```
US-08-623-428D-59
; Sequence 59, Application US/08623428D
; Patent No. 6312890
; GENERAL INFORMATION:
; APPLICANT: W. MARSTON LINEHAN, MICHAEL
; LERMAN, FARIDA LATIF AND BERTON
; ZBAR
; TITLE OF INVENTION: PARTIAL INTRON SEQUENCE
; OF VHL DISEASE GENE AND ITS USE IN DIAGNOSIS
; OF DISEASE CARRIERS
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: MICROSOFT WORD 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/623,428D
; FILING DATE: 05-Sep-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/623,428
; FILING DATE: MARCH 28, 1996
; APPLICATION NUMBER: 08/061,889
; FILING DATE: May 14, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kathryn M. Brown
; REGISTRATION NUMBER: 34,556
; REFERENCE/DOCKET NUMBER: 2026-4078US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 59
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 59
;
US-08-623-428D-59
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
DB 1 CCAAT 5

RESULT 3
US-09-511-625B-70
; Sequence 70, Application US/09511625B
; Patent No. 6368828
; GENERAL INFORMATION:
; APPLICANT: LaRoche, William J.
; APPLICANT: Patel, Bhavini
; APPLICANT: Pierce, Jacalyn H.
; TITLE OF INVENTION: ATTENUATED AND DOMINANT NEGATIVE VARIANT
; OF INVENTION: CDNAS OF STAT6: STAT6B AND STAT6C
; FILE REFERENCE: 14014.0300u1
; CURRENT APPLICATION NUMBER: US/09/511,625B
; CURRENT FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: PCT/US98/17821
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/070,397

US-09-511-625B-70
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
DB 1 CCAAT 5

RESULT 5
US-09-924-346-4
; Sequence 4, Application US/09924346
; Patent No. 6555674
; GENERAL INFORMATION:
; APPLICANT: Jens Tornoe
; TITLE OF INVENTION: The Jet Promoter
; FILE REFERENCE: 19313-005
; CURRENT APPLICATION NUMBER: US/09/924,346
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/224,087
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 5
; TYPE: DNA
; ORGANISM: Artificial Sequence

US-09-924-346-4
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
DB 1 CCAAT 5

RESULT 4
US-09-305-839-43
; Sequence 43, Application US/09305839
; Patent No. 6514935
; GENERAL INFORMATION:
; APPLICANT: Lee, Wu-En
; TITLE OF INVENTION: Methods of Treating Hypertension
; FILE REFERENCE: 21508-064
; CURRENT APPLICATION NUMBER: US/09/305,839
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/818,655
; PRIOR FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
; LENGTH: 5
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ccatt box

US-09-305-839-43
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
DB 1 CCAAT 5

RESULT 5
US-09-924-346-4
; Sequence 4, Application US/09924346
; Patent No. 6555674
; GENERAL INFORMATION:
; APPLICANT: Jens Tornoe
; TITLE OF INVENTION: The Jet Promoter
; FILE REFERENCE: 19313-005
; CURRENT APPLICATION NUMBER: US/09/924,346
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/224,087
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 5
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Chemically  
OTHER INFORMATION: Synthesized  
US-09-924-346-4

Query Match 100.0%; Score 5; DB 4; Length 5;  
Best Local Similarity 100.0%; Pred. No. 1e+08;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 CCAAT 5  
Db 1 CCAAT 5

RESULT 6  
US-08-593-345B-13/c  
Sequence 13, Application US/08593345B  
Patent No. 5851772  
GENERAL INFORMATION:  
APPLICANT: Mirzabekov, Andrei D  
APPLICANT: Lysov, Yuriy P  
APPLICANT: Shick, Valentine V  
APPLICANT: Dubiley, Svetlana A  
TITLE OF INVENTION: A Microchip Method for the Enrichment of  
TITLE OF INVENTION: Specific DNA Sequences.  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CHERSKOV & FLAYNIK  
STREET: 20 N. Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.50 inch, 1.4 MB storage  
COMPUTER: Macintosh  
OPERATING SYSTEM: Macintosh 7.1  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/593,345B  
FILING DATE: 29-JAN-96  
PRIOR APPLICATION DATA: No. 5851772e  
ATTORNEY/AGENT INFORMATION:  
NAME: Cherskov, Michael J.  
REGISTRATION NUMBER: 33,664  
REFERENCE/DOCKET NUMBER: ANL-IN-95-029+30  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 621-1330  
TELEFAX: (312) 621-0088

INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 bases  
TYPE: nucleic acid  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
FEATURE:  
NAME/KEY: No. 5851772e  
LOCATION: 1-8  
IDENTIFICATION METHOD: Similarity with known sequences.  
OTHER INFORMATION: Complementarity with primer of  
OTHER INFORMATION: exons to a-thalassemia gene.

US-08-593-345B-13  
Query Match 100.0%; Score 5; DB 2; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.4e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 CCAAT 5  
Db 6 CCAAT 2

RESULT 7  
US-07-882-838E-2  
Sequence 2, Application US/07882838E  
Patent No. 5616461  
GENERAL INFORMATION:  
APPLICANT: Priscilla A. Schaffer  
APPLICANT: Christine E. Dabrowski Amaral  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
TITLE OF INVENTION: TREATMENT OF VIRUS INFECTIONS  
NUMBER OF SEQUENCES: 49  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn  
STREET: One Liberty Place  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19103

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM PS/2 Model 502 or 55SX  
OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)  
SOFTWARE: WordPerfect (Version 5.1)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/882,838E  
FILING DATE: May 14, 1992  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Kathryn Leary  
REGISTRATION NUMBER: 36,317  
REFERENCE/DOCKET NUMBER: DFCI-0001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-3100  
TELEFAX: (215) 568-3439  
TELEX:

INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-07-882-838E-2

Query Match 100.0%; Score 5; DB 1; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCAAT 5  
Db 5 CCAAT 9

RESULT 8  
US-08-153-051B-10  
Sequence 10, Application US/08153051B  
Patent No. 5645986  
GENERAL INFORMATION:  
APPLICANT: Michael D. West  
APPLICANT: Jerry W. Shay  
APPLICANT: Woodring E. Wright  
APPLICANT: Elizabeth Blackburn  
APPLICANT: Nam Woo Kim  
APPLICANT: Calvin B. Harley  
APPLICANT: Scott L. Weinrich  
APPLICANT: Catherine Strahl  
APPLICANT: Michael J. McEachern  
APPLICANT: Homayoun Vaziri  
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF  
TITLE OF INVENTION: CONDITIONS RELATED TO TELOMERE  
TITLE OF INVENTION: LENGTH AND/OR TELOMERASE ACTIVITY  
NUMBER OF SEQUENCES: 58

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
COUNTRY: California
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153,051B
FILING DATE: No. 5645986member 12, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/038,766
FILING DATE: March 24, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 204/195
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 9
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-153-051B-10

```

```

Query Match 100.0%; Score 5; DB 1; Length 9;
Best Local Similarity 80.0%; Pred. No. 5.7e+07;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 CCAAT 5
DB 4 CCAAU 8

```

```

RESULT 9
US-08-151-477A-10
Sequence 10, Application US/08151477A
Patent No. 5830644
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Jerry W. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
APPLICANT: Nam Woo Kim
APPLICANT: Calvin B. Harley
APPLICANT: Scott L. Weinrich
APPLICANT: Catherine Strahl
APPLICANT: Michael J. McEachern
APPLICANT: Homayoun Vaziri
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: CONDITIONS RELATED TO TELEOMERE
TITLE OF INVENTION: LENGTH AND/OR TELOMERASE ACTIVITY
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
COUNTRY: California
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/151,477A
FILING DATE: March 12, 1993

```

```

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/151,477A
FILING DATE: No. 5830644member 12, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/038,766
FILING DATE: March 24, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 202/189
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 9
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-151-477A-10

```

```

Query Match 100.0%; Score 5; DB 2; Length 9;
Best Local Similarity 80.0%; Pred. No. 5.7e+07;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 CCAAT 5
DB 4 CCAAU 8

```

```

RESULT 10
US-08-819-867-10
Sequence 10, Application US/08819867
Patent No. 6007989
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Calvin B. Harley
APPLICANT: Scott L. Weinrich
APPLICANT: Catherine M. Strahl
APPLICANT: Michael J. McEachern
APPLICANT: Jerry Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth H. Blackburn
APPLICANT: Nam Woo Kim
APPLICANT: Homayoun Vaziri
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: CONDITIONS RELATED TO
TITLE OF INVENTION: TELOMERE LENGTH AND/OR
TITLE OF INVENTION: TELOMERASE ACTIVITY
NUMBER OF SEQUENCES: 80
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
COUNTRY: California
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/819,867
FILING DATE: March 14, 1997

```

```

; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; FILING DATE: No. 08/153_051
; APPLICATION NUMBER: No. 6007989ember 12, 1993
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Chambers, Daniel M.
; REGISTRATION NUMBER: 34,561
; REFERENCE/DOCKET NUMBER: 224/232
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-819-867-10

Query Match 100.0%; Score 5; DB 3; Length 9;
Best Local Similarity 80.0%; Pred. No. 5.7e+07;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCAAT 5
Db 4 CCAAU 8

RESULT 11
US-09-282-824A-1/c
; Sequence 1, Application US/09282824A
; Patent No. 6211162
; GENERAL INFORMATION:
; APPLICANT: Dale, Roderic M.K.
; APPLICANT: Gatton, Steven L.
; APPLICANT: Arrow, Amy
; TITLE OF INVENTION: Pulmonary Delivery of
; FILE REFERENCE: Oligo-001CIP
; CURRENT APPLICATION NUMBER: US/09/282,824A
; CURRENT FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: 09/222,009
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthesized modified oligonucleotide
;
US-09-282-824A-1

Query Match 100.0%; Score 5; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCAAT 5
Db 9 CCAAT 5

RESULT 12
US-09-222-009-1/c
; Sequence 1, Application US/09222009
; Patent No. 6211349
; GENERAL INFORMATION:
; APPLICANT: Dale, Roderic M. K.
; APPLICANT: Arrow, Amy
; APPLICANT: Gatton, Steven L.
;
US-09-869-098a-1_copy_1364_1368.rn1

; APPLICANT: Thompson, Terry
; TITLE OF INVENTION: Protonated/Acidified Nucleic Acids and
; FILE REFERENCE: Oligo-1P
; CURRENT APPLICATION NUMBER: US/09/222,009
; CURRENT FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized oligonucleotide
;
US-09-222-009-1

Query Match 100.0%; Score 5; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCAAT 5
Db 9 CCAAT 5

RESULT 13
US-09-452-817-16/c
; Sequence 16, Application US/09452817
; Patent No. 6342374
; GENERAL INFORMATION:
; APPLICANT: Carmichael, David F
; APPLICANT: Anderson, David C
; APPLICANT: Stricklin, George P
; APPLICANT: Welgus, Howard G
; TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System
; TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For
; FILE REFERENCE: Serial No. 6342374 09/452,817
; CURRENT APPLICATION NUMBER: US/09/452,817
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 08/474,553
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/050,739
; PRIOR FILING DATE: 1993-04-21
; PRIOR APPLICATION NUMBER: 07/853,018
; PRIOR FILING DATE: 1992-03-18
; PRIOR APPLICATION NUMBER: 07/517,475
; PRIOR FILING DATE: 1990-05-01
; PRIOR APPLICATION NUMBER: 07/320,923
; PRIOR FILING DATE: 1989-03-08
; PRIOR APPLICATION NUMBER: 06/784,319
; PRIOR FILING DATE: 1985-10-04
; PRIOR APPLICATION NUMBER: 06/699,181
; PRIOR FILING DATE: 1985-02-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: linker
;
US-09-452-817-16

Query Match 100.0%; Score 5; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCAAT 5
Db 6 CCAAT 2
```

Search completed: September 1, 2004, 02:34:40  
Job time : 36.0833 secs

RESULT 14  
US-09-179-298-4/c  
; Sequence 4, Application US/09179298  
; Patent No. 6355421  
; GENERAL INFORMATION:  
; APPLICANT: Coull, James M.  
; APPLICANT: Gildea, Brian D.  
; APPLICANT: Hyldig-Nielsen, Jens J.  
; TITLE OF INVENTION: Methods, Kits and Compositions Pertaining To PNA  
; TITLE OF INVENTION: Molecular Beacons  
; FILE REFERENCE: BP9702US-CPI  
; CURRENT APPLICATION NUMBER: US/09/179,298  
; CURRENT FILING DATE: 1998-10-27  
; EARLIER APPLICATION NUMBER: 08/958,532  
; EARLIER FILING DATE: 1997-10-27  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)  
; OTHER INFORMATION: 5'-Fluorescein  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:SYNTHETIC PROBE  
; OTHER INFORMATION: OR TARGET  
US-09-179-298-4

Query Match 100.0%; Score 5; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
DB 9 CCAAT 5

RESULT 15  
US-09-179-298-5/c  
; Sequence 5, Application US/09179298  
; Patent No. 6355421  
; GENERAL INFORMATION:  
; APPLICANT: Coull, James M.  
; APPLICANT: Gildea, Brian D.  
; APPLICANT: Hyldig-Nielsen, Jens J.  
; TITLE OF INVENTION: Methods, Kits and Compositions Pertaining To PNA  
; TITLE OF INVENTION: Molecular Beacons  
; FILE REFERENCE: BP9702US-CPI  
; CURRENT APPLICATION NUMBER: US/09/179,298  
; CURRENT FILING DATE: 1998-10-27  
; EARLIER APPLICATION NUMBER: 08/958,532  
; EARLIER FILING DATE: 1997-10-27  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:SYNTHETIC PROBE  
; OTHER INFORMATION: OR TARGET  
US-09-179-298-5

Query Match 100.0%; Score 5; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
DB 9 CCAAT 5

Exhibit F

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 31.0833 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098a-1\_COPY\_1316\_1320

Perfect score: 5

Sequence: 1 ccaat 5

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database :

- 1: /cgm2\_6/ptodata/2/ina/5A\_COMB.seq.\*
- 2: /cgm2\_6/ptodata/2/ina/5B\_COMB.seq.\*
- 3: /cgm2\_6/ptodata/2/ina/6A\_COMB.seq.\*
- 4: /cgm2\_6/ptodata/2/ina/6B\_COMB.seq.\*
- 5: /cgm2\_6/ptodata/2/ina/PTCUS\_COMB.seq.\*
- 6: /cgm2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5	100.0	5	3	US-08-630-019A-45
2	5	100.0	5	4	US-08-623-428D-59
3	5	100.0	5	4	US-09-511-625B-70
4	5	100.0	5	4	US-09-305-839-43
5	5	100.0	5	4	US-09-924-346-4
6	5	100.0	8	2	US-08-593-345B-13
7	5	100.0	9	1	US-07-882-838E-2
8	5	100.0	9	1	US-08-153-051B-10
9	5	100.0	9	2	US-08-151-477A-10
10	5	100.0	9	3	US-08-819-867-10
11	5	100.0	9	3	US-09-282-824A-1
12	5	100.0	9	3	US-09-222-009-1
13	5	100.0	9	4	US-09-452-817-16
14	5	100.0	9	4	US-09-179-298-4
15	5	100.0	9	4	US-09-179-298-5
16	5	100.0	9	4	US-09-179-298-6
17	5	100.0	9	4	US-09-179-298-7
18	5	100.0	9	4	US-09-888-341-4
19	5	100.0	9	4	US-09-888-341-5
20	5	100.0	9	4	US-09-888-341-6
21	5	100.0	9	4	US-09-888-341-7
22	5	100.0	9	4	US-09-378-535-10
23	5	100.0	9	4	US-09-989-789-2150
24	5	100.0	9	4	US-09-989-789-2151
25	5	100.0	9	4	US-09-281-858-1
26	5	100.0	10	1	US-09-985-799-6
27	5	100.0	10	1	US-09-985-799-8

28	5	100.0	10	1	US-09-263-790-38	Sequence 38, Appl
29	5	100.0	10	1	US-09-721-777-20	Sequence 20, Appl
30	5	100.0	10	1	US-07-767-135-6	Sequence 6, Appl
31	5	100.0	10	1	US-08-060-952C-11	Sequence 11, Appl
32	5	100.0	10	1	US-08-701-270-9	Sequence 9, Appl
33	5	100.0	10	1	US-08-594-031-6	Sequence 6, Appl
34	5	100.0	10	1	US-08-594-031-8	Sequence 8, Appl
35	5	100.0	10	2	US-08-859-453B-17	Sequence 17, Appl
36	5	100.0	10	2	US-08-590-571-16	Sequence 16, Appl
37	5	100.0	10	2	US-08-634-350-19	Sequence 19, Appl
38	5	100.0	10	3	US-08-388-353-27	Sequence 27, Appl
39	5	100.0	10	3	US-08-388-353-28	Sequence 28, Appl
40	5	100.0	10	3	US-08-388-353-29	Sequence 29, Appl
41	5	100.0	10	3	US-08-388-353-30	Sequence 30, Appl
42	5	100.0	10	3	US-08-388-353-31	Sequence 31, Appl
43	5	100.0	10	3	US-08-388-353-32	Sequence 32, Appl
44	5	100.0	10	3	US-08-388-353-228	Sequence 228, App
45	5	100.0	10	3	US-08-388-353-229	Sequence 229, App
46	5	100.0	10	3	US-08-388-353-230	Sequence 230, App
47	5	100.0	10	3	US-08-388-353-231	Sequence 231, App
48	5	100.0	10	3	US-08-388-353-232	Sequence 232, App
49	5	100.0	10	3	US-08-388-353-233	Sequence 233, App
50	5	100.0	10	3	US-08-388-353-364	Sequence 364, App
51	5	100.0	10	3	US-08-388-353-365	Sequence 365, App
52	5	100.0	10	3	US-08-388-353-366	Sequence 366, App
53	5	100.0	10	3	US-08-388-353-367	Sequence 367, App
54	5	100.0	10	3	US-08-388-353-368	Sequence 368, App
55	5	100.0	10	3	US-08-388-353-369	Sequence 369, App
56	5	100.0	10	3	US-08-388-353-463	Sequence 463, App
57	5	100.0	10	3	US-08-388-353-464	Sequence 464, App
58	5	100.0	10	3	US-08-388-353-465	Sequence 465, App
59	5	100.0	10	3	US-08-388-353-466	Sequence 466, App
60	5	100.0	10	3	US-08-388-353-467	Sequence 467, App
61	5	100.0	10	3	US-08-388-353-468	Sequence 468, App
62	5	100.0	10	3	US-08-488-551B-27	Sequence 27, Appl
63	5	100.0	10	3	US-08-488-551B-28	Sequence 28, Appl
64	5	100.0	10	3	US-08-488-551B-29	Sequence 29, Appl
65	5	100.0	10	3	US-08-488-551B-30	Sequence 30, Appl
66	5	100.0	10	3	US-08-488-551B-31	Sequence 31, Appl
67	5	100.0	10	3	US-08-488-551B-32	Sequence 32, Appl
68	5	100.0	10	3	US-08-488-551B-228	Sequence 228, App
69	5	100.0	10	3	US-08-488-551B-229	Sequence 229, App
70	5	100.0	10	3	US-08-488-551B-230	Sequence 230, App
71	5	100.0	10	3	US-08-488-551B-231	Sequence 231, App
72	5	100.0	10	3	US-08-488-551B-232	Sequence 232, App
73	5	100.0	10	3	US-08-488-551B-233	Sequence 233, App
74	5	100.0	10	3	US-08-488-551B-364	Sequence 364, App
75	5	100.0	10	3	US-08-488-551B-365	Sequence 365, App
76	5	100.0	10	3	US-08-488-551B-366	Sequence 366, App
77	5	100.0	10	3	US-08-488-551B-367	Sequence 367, App
78	5	100.0	10	3	US-08-488-551B-368	Sequence 368, App
79	5	100.0	10	3	US-08-488-551B-369	Sequence 369, App
80	5	100.0	10	3	US-08-488-551B-463	Sequence 463, App
81	5	100.0	10	3	US-08-488-551B-464	Sequence 464, App
82	5	100.0	10	3	US-08-488-551B-465	Sequence 465, App
83	5	100.0	10	3	US-08-488-551B-466	Sequence 466, App
84	5	100.0	10	3	US-08-488-551B-467	Sequence 467, App
85	5	100.0	10	3	US-08-488-551B-468	Sequence 468, App
86	5	100.0	10	3	US-08-906-691-7	Sequence 7, Appl
87	5	100.0	10	3	US-09-089-853A-17	Sequence 17, Appl
88	5	100.0	10	3	US-09-196-543D-17	Sequence 17, Appl
89	5	100.0	10	3	US-09-131-009A-17	Sequence 17, Appl
90	5	100.0	10	3	US-09-092-226A-17	Sequence 17, Appl
91	5	100.0	10	3	US-08-991-789A-93	Sequence 93, Appl
92	5	100.0	10	3	US-08-991-789A-96	Sequence 96, Appl
93	5	100.0	10	3	US-09-130-862A-17	Sequence 17, Appl
94	5	100.0	10	3	US-09-240-918-96	Sequence 96, Appl
95	5	100.0	10	3	US-09-090-809A-17	Sequence 17, Appl
96	5	100.0	10	3	US-09-398-499-49	Sequence 49, Appl
97	5	100.0	10	4	US-09-140-084-14	Sequence 14, Appl
98	5	100.0	10	4	US-08-623-428B-34	Sequence 34, Appl
99	5	100.0	10	4	US-09-062-451-93	Sequence 93, Appl
100	5	100.0	10	4	US-09-062-451-96	Sequence 96, Appl

101	5	100.0	10	4	US-09-053-116A-17	Sequence 17, Appl	C 174	5	100.0	12	3	US-09-282-824A-3	Sequence 3, Appl1
102	5	100.0	10	4	US-08-464-011B-11	Sequence 11, Appl	C 175	5	100.0	12	3	US-09-222-009-3	Sequence 3, Appl1
103	5	100.0	10	4	US-09-598-326-93	Sequence 93, Appl	C 176	5	100.0	12	3	US-08-930-828A-31	Sequence 31, Appl
104	5	100.0	10	4	US-09-598-326-96	Sequence 96, Appl	C 177	5	100.0	12	3	US-09-085-273-105	Sequence 105, App
105	5	100.0	10	4	US-09-724-397-14	Sequence 14, Appl	C 178	5	100.0	12	3	US-09-267-433-43	Sequence 43, Appl
106	5	100.0	10	4	US-09-154-750A-35	Sequence 35, Appl	C 179	5	100.0	12	3	US-09-281-418-54	Sequence 54, Appl
107	5	100.0	10	4	US-09-154-750A-42	Sequence 42, Appl	C 180	5	100.0	12	3	US-09-281-418-58	Sequence 58, Appl
108	5	100.0	10	4	US-09-261-115-21	Sequence 21, Appl	C 181	5	100.0	12	3	US-09-281-418-85	Sequence 85, Appl
109	5	100.0	10	4	US-09-336-946B-10	Sequence 10, Appl	C 182	5	100.0	12	3	US-09-281-418-87	Sequence 87, Appl
110	5	100.0	10	4	US-09-914-259-153	Sequence 153, App	C 183	5	100.0	12	3	US-09-281-418-89	Sequence 89, Appl
111	5	100.0	10	4	US-09-301-721A-23	Sequence 23, Appl	C 184	5	100.0	12	3	US-09-281-418-178	Sequence 178, App
112	5	100.0	10	4	US-09-445-388A-4	Sequence 4, Appl1	C 185	5	100.0	12	4	US-09-580-517-19	Sequence 19, Appl
113	5	100.0	10	4	US-09-445-388A-5	Sequence 5, Appl1	C 186	5	100.0	12	4	US-09-393-783A-64	Sequence 64, Appl
114	5	100.0	10	4	US-09-508-753B-171	Sequence 171, App	C 187	5	100.0	12	4	US-09-393-783A-65	Sequence 65, Appl
115	5	100.0	10	4	US-09-508-753B-203	Sequence 203, App	C 188	5	100.0	12	4	US-09-393-783A-66	Sequence 66, Appl
116	5	100.0	10	4	US-09-508-753B-223	Sequence 223, App	C 189	5	100.0	12	4	US-09-393-783A-67	Sequence 67, Appl
117	5	100.0	10	4	US-09-508-753B-352	Sequence 352, App	C 190	5	100.0	12	4	US-09-393-783A-67	Sequence 67, Appl
118	5	100.0	10	4	US-09-289-198-93	Sequence 93, Appl	C 191	5	100.0	12	4	US-09-354-947-618	Sequence 618, App
119	5	100.0	10	4	US-09-289-198-96	Sequence 96, Appl	C 192	5	100.0	12	4	US-09-513-783A-83	Sequence 83, Appl
120	5	100.0	10	4	US-09-429-755-93	Sequence 93, Appl	C 193	5	100.0	12	4	US-09-151-890B-64	Sequence 64, Appl
121	5	100.0	10	4	US-09-429-755-96	Sequence 96, Appl	C 194	5	100.0	12	4	US-09-151-890B-65	Sequence 65, Appl
122	5	100.0	10	4	US-10-032-307-15	Sequence 15, Appl	C 195	5	100.0	12	4	US-09-151-890B-66	Sequence 66, Appl
123	5	100.0	10	6	5352578-1	Patent No. 5352578	C 196	5	100.0	12	4	US-09-151-890B-67	Sequence 67, Appl
124	5	100.0	10	6	5451502-4	Patent No. 5451502	C 197	5	100.0	12	4	US-09-151-890B-67	Sequence 67, Appl
125	5	100.0	11	1	US-07-780-973-11	Sequence 11, Appl	C 198	5	100.0	12	4	US-09-073-138-43	Sequence 43, Appl
126	5	100.0	11	1	US-08-376-688-1	Sequence 8, Appl1	C 199	5	100.0	12	4	US-08-705-477E-77	Sequence 77, Appl
127	5	100.0	11	1	US-08-473-122-8	Sequence 8, Appl1	C 200	5	100.0	12	4	US-09-916-963-105	Sequence 105, App
128	5	100.0	11	2	US-08-472-478-8	Sequence 8, Appl1	C 201	5	100.0	12	5	PCT-US93-12388-618	Patent No. 5204259
129	5	100.0	11	3	US-09-018-545-8	Sequence 8, Appl1	C 202	5	100.0	12	6	5204259-17	Sequence 18, Appl
130	5	100.0	11	3	US-08-745-404-6	Sequence 6, Appl1	C 203	5	100.0	13	1	US-07-906-930E-18	Sequence 18, Appl
131	5	100.0	11	3	US-08-745-404-7	Sequence 7, Appl1	C 204	5	100.0	13	1	US-08-435-350-113	Sequence 113, App
132	5	100.0	11	3	US-09-196-523-34	Sequence 34, Appl	C 205	5	100.0	13	1	US-08-448-736-8	Sequence 8, Appl1
133	5	100.0	11	4	US-08-481-659C-8	Sequence 8, Appl1	C 206	5	100.0	13	1	US-08-271-880A-199	Sequence 199, App
134	5	100.0	11	4	US-08-481-659C-24	Sequence 24, Appl	C 207	5	100.0	13	1	US-08-452-779-8	Sequence 8, Appl1
135	5	100.0	11	4	US-08-927-165A-24	Sequence 24, Appl	C 208	5	100.0	13	1	US-08-259-148A-41	Sequence 41, Appl
136	5	100.0	11	4	US-09-705-417-15	Sequence 15, Appl	C 209	5	100.0	13	1	US-08-148-058A-4	Sequence 4, Appl1
137	5	100.0	11	4	US-09-373-129A-14	Sequence 14, Appl	C 210	5	100.0	13	1	US-08-148-058A-13	Sequence 13, Appl
138	5	100.0	11	4	US-09-373-129A-15	Sequence 15, Appl	C 211	5	100.0	13	1	US-08-478-042-4	Sequence 4, Appl1
139	5	100.0	11	4	US-09-373-129A-16	Sequence 16, Appl	C 212	5	100.0	13	1	US-08-478-042-13	Sequence 13, Appl
140	5	100.0	11	4	US-09-373-129A-17	Sequence 17, Appl	C 213	5	100.0	13	1	US-08-445-065-8	Sequence 8, Appl1
141	5	100.0	11	4	US-09-249-155A-31	Sequence 31, Appl	C 214	5	100.0	13	1	US-08-645-215-4	Sequence 4, Appl1
142	5	100.0	11	4	US-09-249-155A-101	Sequence 101, App	C 215	5	100.0	13	1	US-08-645-215-13	Sequence 13, Appl
143	5	100.0	11	4	US-09-249-155A-210	Sequence 210, App	C 216	5	100.0	13	2	US-08-466-604-4	Sequence 4, Appl1
144	5	100.0	11	4	US-09-249-155A-320	Sequence 320, App	C 217	5	100.0	13	2	US-08-466-604-13	Sequence 13, Appl
145	5	100.0	11	4	US-09-249-155A-326	Sequence 326, App	C 218	5	100.0	13	2	US-07-876-941A-57	Sequence 57, Appl
146	5	100.0	11	4	PCT-US94-03747-1	Sequence 9, Appl1	C 219	5	100.0	13	2	US-08-910-408-199	Sequence 199, App
147	5	100.0	11	5	US-08-171-389-618	Sequence 1, Appl1	C 220	5	100.0	13	2	US-08-771-602D-27	Sequence 27, Appl
148	5	100.0	12	1	US-08-330-123A-19	Sequence 19, App	C 221	5	100.0	13	3	US-08-544-381B-35	Sequence 35, Appl
149	5	100.0	12	1	US-08-284-484A-1	Sequence 1, Appl1	C 222	5	100.0	13	3	US-08-544-381B-44	Sequence 44, Appl
150	5	100.0	12	1	US-07-996-783-18	Sequence 18, Appl	C 223	5	100.0	13	3	US-09-249-215-199	Sequence 199, App
151	5	100.0	12	1	US-08-484-499-18	Sequence 18, Appl	C 224	5	100.0	13	3	US-09-196-523-43	Sequence 43, Appl
152	5	100.0	12	1	US-08-484-499-18	Sequence 18, Appl	C 225	5	100.0	13	4	US-08-778-794A-93	Sequence 93, Appl
153	5	100.0	12	1	US-08-123-936-618	Sequence 618, App	C 226	5	100.0	13	4	US-09-611-452A-8	Sequence 8, Appl1
154	5	100.0	12	1	US-08-475-221B-18	Sequence 18, App	C 227	5	100.0	13	4	US-09-474-432B-92	Sequence 92, Appl
155	5	100.0	12	1	US-08-475-221B-18	Sequence 18, App	C 228	5	100.0	13	4	US-09-973-132-5	Sequence 5, Appl1
156	5	100.0	12	1	US-08-545-785-1	Sequence 1, Appl1	C 229	5	100.0	13	4	US-09-476-387-92	Sequence 92, Appl
157	5	100.0	12	2	US-08-441-887A-247	Sequence 247, App	C 230	5	100.0	13	4	US-09-874-601-69	Sequence 69, Appl
158	5	100.0	12	2	US-08-441-887A-248	Sequence 248, App	C 231	5	100.0	13	4	US-09-874-601-161	Sequence 161, App
159	5	100.0	12	2	US-08-417-174-43	Sequence 43, Appl	C 232	5	100.0	13	4	5182195-40	Patent No. 5182195
160	5	100.0	12	2	US-08-642-045B-24	Sequence 24, Appl	C 233	5	100.0	13	6	5256558-9	Patent No. 5256558
161	5	100.0	12	2	US-08-475-228A-618	Sequence 618, App	C 234	5	100.0	13	6	5432082-1	Patent No. 5432082
162	5	100.0	12	2	US-08-761-242-1	Sequence 1, Appl1	C 235	5	100.0	13	6	5451502-17	Patent No. 5451502
163	5	100.0	12	2	US-08-761-242-1	Sequence 1, Appl1	C 236	5	100.0	14	1	US-07-882-838E-32	Sequence 32, Appl
164	5	100.0	12	2	US-08-231-565A-41	Sequence 41, Appl	C 237	5	100.0	14	2	US-08-418-085-77	Sequence 77, Appl
165	5	100.0	12	2	US-08-485-778-38	Sequence 38, Appl	C 238	5	100.0	14	3	US-08-544-381B-2	Sequence 2, Appl1
166	5	100.0	12	2	US-08-634-350-18	Sequence 18, Appl	C 239	5	100.0	14	3	US-08-544-381B-3	Sequence 3, Appl1
167	5	100.0	12	2	US-08-390-888A-10	Sequence 10, Appl	C 240	5	100.0	14	3	US-08-544-381B-4	Sequence 4, Appl1
168	5	100.0	12	2	US-08-893-614-6	Sequence 6, Appl1	C 241	5	100.0	14	3	US-08-544-381B-5	Sequence 5, Appl1
169	5	100.0	12	2	US-09-007-961-41	Sequence 41, Appl	C 242	5	100.0	14	3	US-08-544-381B-6	Sequence 6, Appl1
170	5	100.0	12	2	US-08-658-665-105	Sequence 105, App	C 243	5	100.0	14	3	US-08-544-381B-7	Sequence 7, Appl1
171	5	100.0	12	3	US-08-482-080A-618	Sequence 618, App	C 244	5	100.0	14	3	US-08-544-381B-8	Sequence 8, Appl1
172	5	100.0	12	3	US-08-520-550A-38	Sequence 38, Appl	C 245	5	100.0	14	3	US-08-985-162-1781	Sequence 1781, Ap
173	5	100.0	12	3	US-08-796-101-82	Sequence 82, Appl	C 246	5	100.0	14	3		

C 247	14	3	US-08-711-218-1	Sequence 1, Appl1	C 320	5	100.0	15	1	US-08-334-847-318	Sequence 318, App
C 248	14	3	US-08-913-833-21	Sequence 21, Appl1	C 321	5	100.0	15	1	US-08-334-847-506	Sequence 506, App
C 249	14	3	US-08-913-833-23	Sequence 23, Appl1	C 322	5	100.0	15	1	US-08-334-847-507	Sequence 507, App
C 250	14	3	US-08-913-833-29	Sequence 29, Appl1	C 323	5	100.0	15	1	US-08-334-847-611	Sequence 611, App
C 251	14	3	US-09-134-855-3	Sequence 3, Appl1	C 324	5	100.0	15	1	US-08-271-880A-5	Sequence 5, Appl1
C 252	14	3	US-08-765-340-129	Sequence 129, App	C 325	5	100.0	15	1	US-08-271-880A-7	Sequence 7, Appl1
C 253	14	3	US-09-099-011A-77	Sequence 77, Appl1	C 326	5	100.0	15	1	US-08-271-880A-194	Sequence 194, App
C 254	14	3	US-08-871-678C-76	Sequence 76, Appl1	C 327	5	100.0	15	1	US-08-271-880A-221	Sequence 221, App
C 255	14	4	US-08-778-794A-24	Sequence 24, Appl1	C 328	5	100.0	15	1	US-08-363-240A-98	Sequence 98, Appl1
C 256	14	4	US-08-778-794A-25	Sequence 25, Appl1	C 329	5	100.0	15	1	US-08-363-240A-350	Sequence 250, App
C 257	14	4	US-08-778-794A-26	Sequence 26, Appl1	C 330	5	100.0	15	1	US-08-363-240A-351	Sequence 251, App
C 258	14	4	US-08-778-794A-27	Sequence 27, Appl1	C 331	5	100.0	15	1	US-08-585-684B-14	Sequence 14, Appl1
C 259	14	4	US-08-778-794A-28	Sequence 28, Appl1	C 332	5	100.0	15	1	US-08-221-816B-24	Sequence 24, Appl1
C 260	14	4	US-08-778-794A-29	Sequence 29, Appl1	C 333	5	100.0	15	1	US-08-706-037-21	Sequence 21, Appl1
C 261	14	4	US-08-778-794A-30	Sequence 30, Appl1	C 334	5	100.0	15	1	US-08-700-186-14	Sequence 14, Appl1
C 262	14	4	US-08-778-794A-119	Sequence 119, App	C 335	5	100.0	15	1	US-08-311-486C-115	Sequence 115, App
C 263	14	4	US-09-580-794C-21	Sequence 21, Appl1	C 336	5	100.0	15	1	US-08-311-486C-129	Sequence 129, App
C 264	14	4	US-09-580-794C-23	Sequence 23, Appl1	C 337	5	100.0	15	1	US-08-311-486C-216	Sequence 216, App
C 265	14	4	US-09-580-794C-29	Sequence 29, Appl1	C 338	5	100.0	15	1	US-08-311-486C-757	Sequence 757, App
C 266	14	4	US-09-295-744A-18	Sequence 18, Appl1	C 339	5	100.0	15	1	US-08-435-628-82	Sequence 82, Appl1
C 267	14	4	US-08-666-341A-35	Sequence 35, Appl1	C 340	5	100.0	15	1	US-08-435-628-2624	Sequence 2624, Ap
C 268	14	4	US-08-666-341A-36	Sequence 36, Appl1	C 341	5	100.0	15	1	US-08-435-628-2626	Sequence 2626, Ap
C 269	14	4	US-09-713-678-1	Sequence 1, Appl1	C 342	5	100.0	15	2	US-08-292-620A-59	Sequence 59, Appl1
C 270	14	4	US-09-401-603-1781	Sequence 1781, Ap	C 343	5	100.0	15	2	US-08-292-620A-60	Sequence 60, Appl1
C 271	14	4	US-09-874-601-75	Sequence 75, Appl1	C 344	5	100.0	15	2	US-08-292-620A-61	Sequence 61, Appl1
C 272	14	4	US-09-874-601-180	Sequence 180, App	C 345	5	100.0	15	2	US-08-292-620A-123	Sequence 123, App
C 273	14	4	US-09-098-877B-77	Sequence 77, Appl1	C 346	5	100.0	15	2	US-08-292-620A-170	Sequence 170, App
C 274	14	4	US-10-002-720-1	Sequence 1, Appl1	C 347	5	100.0	15	2	US-08-292-620A-171	Sequence 171, App
C 275	15	1	US-07-820-412-3	Sequence 3, Appl1	C 348	5	100.0	15	2	US-08-292-620A-200	Sequence 200, App
C 276	15	1	US-07-912-900-12	Sequence 12, Appl1	C 349	5	100.0	15	2	US-08-292-620A-201	Sequence 201, App
C 277	15	1	US-07-860-925-22	Sequence 22, Appl1	C 350	5	100.0	15	2	US-08-292-620A-202	Sequence 202, App
C 278	15	1	US-07-860-925-30	Sequence 30, Appl1	C 351	5	100.0	15	2	US-08-292-620A-259	Sequence 259, App
C 279	15	1	US-07-987-130-2	Sequence 2, Appl1	C 352	5	100.0	15	2	US-08-292-620A-260	Sequence 260, App
C 280	15	1	US-07-906-3308-8	Sequence 8, Appl1	C 353	5	100.0	15	2	US-08-292-620A-261	Sequence 261, App
C 281	15	1	US-08-285-309-12	Sequence 12, Appl1	C 354	5	100.0	15	2	US-08-292-620A-323	Sequence 323, App
C 282	15	1	US-07-988-925-17	Sequence 17, Appl1	C 355	5	100.0	15	2	US-08-292-620A-324	Sequence 324, App
C 283	15	1	US-08-311-462-2	Sequence 2, Appl1	C 356	5	100.0	15	2	US-08-292-620A-420	Sequence 420, App
C 284	15	1	US-08-311-462-11	Sequence 11, Appl1	C 357	5	100.0	15	2	US-08-292-620A-536	Sequence 536, App
C 285	15	1	US-08-311-760A-50	Sequence 50, Appl1	C 358	5	100.0	15	2	US-08-292-620A-543	Sequence 543, App
C 286	15	1	US-08-311-760A-62	Sequence 62, Appl1	C 359	5	100.0	15	2	US-08-292-620A-554	Sequence 554, App
C 287	15	1	US-08-182-968A-178	Sequence 178, App	C 360	5	100.0	15	2	US-08-292-620A-600	Sequence 600, App
C 288	15	1	US-08-182-968A-311	Sequence 311, App	C 361	5	100.0	15	2	US-08-292-620A-601	Sequence 601, App
C 289	15	1	US-08-182-968A-346	Sequence 346, App	C 362	5	100.0	15	2	US-08-292-620A-602	Sequence 602, App
C 290	15	1	US-08-182-968A-356	Sequence 356, App	C 363	5	100.0	15	2	US-08-292-620A-691	Sequence 691, App
C 291	15	1	US-08-182-968A-357	Sequence 357, App	C 364	5	100.0	15	2	US-08-292-620A-742	Sequence 742, App
C 292	15	1	US-08-182-968A-367	Sequence 367, App	C 365	5	100.0	15	2	US-08-441-887A-8	Sequence 8, Appli
C 293	15	1	US-08-182-968A-497	Sequence 497, App	C 366	5	100.0	15	2	US-08-434-354-2	Sequence 2, Appli
C 294	15	1	US-08-319-492B-29	Sequence 29, Appl1	C 367	5	100.0	15	2	US-08-434-354-11	Sequence 11, Appl1
C 295	15	1	US-08-319-492B-38	Sequence 38, Appl1	C 368	5	100.0	15	2	US-08-417-174-44	Sequence 44, Appl1
C 296	15	1	US-08-319-492B-64	Sequence 64, Appl1	C 369	5	100.0	15	2	US-08-379-482A-7	Sequence 7, Appli
C 297	15	1	US-08-319-492B-65	Sequence 65, Appl1	C 370	5	100.0	15	2	US-08-502-046-12	Sequence 12, Appl1
C 298	15	1	US-08-319-492B-66	Sequence 66, Appl1	C 371	5	100.0	15	2	US-08-774-306A-178	Sequence 178, App
C 299	15	1	US-08-319-492B-384	Sequence 384, App	C 372	5	100.0	15	2	US-08-774-306A-311	Sequence 311, App
C 300	15	1	US-08-192-941-13	Sequence 13, Appl1	C 373	5	100.0	15	2	US-08-774-306A-346	Sequence 346, App
C 301	15	1	US-08-146-886-21	Sequence 21, Appl1	C 374	5	100.0	15	2	US-08-774-306A-356	Sequence 356, App
C 302	15	1	US-08-220-606B-10	Sequence 10, Appl1	C 375	5	100.0	15	2	US-08-774-306A-357	Sequence 357, App
C 303	15	1	US-08-220-606B-10	Sequence 10, Appl1	C 376	5	100.0	15	2	US-08-774-306A-367	Sequence 367, App
C 304	15	1	US-08-373-124A-82	Sequence 82, Appl1	C 377	5	100.0	15	2	US-08-774-306A-457	Sequence 457, App
C 305	15	1	US-08-373-124A-2624	Sequence 2624, Ap	C 378	5	100.0	15	2	US-08-231-565A-42	Sequence 42, Appl1
C 306	15	1	US-08-373-124A-2626	Sequence 2626, Ap	C 379	5	100.0	15	2	US-08-585-684B-40	Sequence 40, Appl1
C 307	15	1	US-08-291-932A-191	Sequence 191, App	C 380	5	100.0	15	2	US-08-585-684B-41	Sequence 41, Appl1
C 308	15	1	US-08-291-932A-380	Sequence 380, App	C 381	5	100.0	15	2	US-08-585-684B-42	Sequence 42, Appl1
C 309	15	1	US-08-334-215-22	Sequence 22, Appl1	C 382	5	100.0	15	2	US-08-585-684B-53	Sequence 53, Appl1
C 310	15	1	US-08-334-215-30	Sequence 30, Appl1	C 383	5	100.0	15	2	US-08-585-684B-290	Sequence 290, App
C 311	15	1	US-08-334-847-74	Sequence 74, Appl1	C 384	5	100.0	15	2	US-08-585-684B-291	Sequence 291, App
C 312	15	1	US-08-334-847-75	Sequence 75, Appl1	C 385	5	100.0	15	2	US-08-585-684B-292	Sequence 292, App
C 313	15	1	US-08-334-847-76	Sequence 76, Appl1	C 386	5	100.0	15	2	US-08-585-684B-664	Sequence 664, App
C 314	15	1	US-08-334-847-77	Sequence 77, Appl1	C 387	5	100.0	15	2	US-08-585-684B-665	Sequence 665, App
C 315	15	1	US-08-334-847-102	Sequence 102, App	C 388	5	100.0	15	2	US-08-585-684B-1233	Sequence 1233, Ap
C 316	15	1	US-08-334-847-103	Sequence 103, App	C 389	5	100.0	15	2	US-08-585-684B-1234	Sequence 1234, Ap
C 317	15	1	US-08-334-847-308	Sequence 308, App	C 390	5	100.0	15	2	US-08-585-684B-1289	Sequence 1289, Ap
C 318	15	1	US-08-334-847-309	Sequence 309, App	C 391	5	100.0	15	2	US-08-585-684B-1290	Sequence 1290, Ap
C 319	15	1	US-08-334-847-310	Sequence 310, App	C 392	5	100.0	15	2		



393	5	100.0	15	2	US-08-585-684B-1291	Sequence 1291, Ap	466	5	100.0	15	3	US-09-071-845-742	Sequence 742, App
394	5	100.0	15	2	US-08-585-684B-1292	Sequence 1292, Ap	467	5	100.0	15	3	US-09-377-310-35	Sequence 35, Appl
395	5	100.0	15	2	US-08-585-684B-2099	Sequence 2099, Ap	C 468	5	100.0	15	3	US-08-461-368A-3	Sequence 3, Appl
396	5	100.0	15	2	US-08-585-684B-2100	Sequence 2100, Ap	C 469	5	100.0	15	3	US-08-871-732A-13	Sequence 13, Appl
397	5	100.0	15	2	US-08-585-684B-2101	Sequence 2101, Ap	C 470	5	100.0	15	3	US-09-249-215-5	Sequence 5, Appl
398	5	100.0	15	2	US-08-585-684B-2130	Sequence 2130, Ap	C 471	5	100.0	15	3	US-09-249-215-7	Sequence 7, Appl
399	5	100.0	15	2	US-08-585-684B-2274	Sequence 2274, Ap	C 472	5	100.0	15	3	US-09-249-215-194	Sequence 194, App
400	5	100.0	15	2	US-08-585-684B-2275	Sequence 2275, Ap	C 473	5	100.0	15	3	US-09-249-215-221	Sequence 221, App
401	5	100.0	15	2	US-08-585-684B-2295	Sequence 2295, Ap	C 474	5	100.0	15	3	US-08-481-341-13	Sequence 13, Appl
402	5	100.0	15	2	US-08-585-684B-2296	Sequence 2296, Ap	C 475	5	100.0	15	3	US-09-109-613-21	Sequence 21, Appl
403	5	100.0	15	2	US-08-585-684B-2297	Sequence 2297, Ap	C 476	5	100.0	15	3	US-09-269-519A-4	Sequence 4, Appl
404	5	100.0	15	2	US-08-774-310-50	Sequence 50, Appl	C 477	5	100.0	15	3	US-09-038-073-40	Sequence 40, Appl
C 405	5	100.0	15	2	US-08-774-310-62	Sequence 62, Appl	C 478	5	100.0	15	3	US-09-038-073-41	Sequence 41, Appl
C 406	5	100.0	15	2	US-08-363-253-18	Sequence 18, Appl	C 479	5	100.0	15	3	US-09-038-073-42	Sequence 42, Appl
C 407	5	100.0	15	2	US-08-363-253-20	Sequence 20, Appl	C 480	5	100.0	15	3	US-09-038-073-52	Sequence 52, Appl
C 408	5	100.0	15	2	US-08-914-981-14	Sequence 14, Appl	C 481	5	100.0	15	3	US-09-038-073-53	Sequence 53, Appl
C 409	5	100.0	15	2	US-08-865-126-13	Sequence 13, Appl	C 482	5	100.0	15	3	US-09-038-073-290	Sequence 290, App
C 410	5	100.0	15	2	US-08-362-780-17	Sequence 17, Appl	C 483	5	100.0	15	3	US-09-038-073-291	Sequence 291, App
C 411	5	100.0	15	2	US-09-005-397-21	Sequence 21, Appl	C 484	5	100.0	15	3	US-09-038-073-292	Sequence 292, App
C 412	5	100.0	15	2	US-08-910-408-5	Sequence 5, Appl	C 485	5	100.0	15	3	US-09-038-073-664	Sequence 664, App
C 413	5	100.0	15	2	US-08-910-408-7	Sequence 7, Appl	C 486	5	100.0	15	3	US-09-038-073-665	Sequence 665, App
C 414	5	100.0	15	2	US-08-910-408-194	Sequence 194, App	C 487	5	100.0	15	3	US-09-038-073-1233	Sequence 1233, Ap
C 415	5	100.0	15	2	US-08-910-408-221	Sequence 221, App	C 488	5	100.0	15	3	US-09-038-073-1234	Sequence 1234, Ap
C 416	5	100.0	15	2	US-08-930-371-4	Sequence 4, Appl	C 489	5	100.0	15	3	US-09-038-073-1289	Sequence 1289, Ap
C 417	5	100.0	15	2	US-08-930-371-8	Sequence 8, Appl	C 490	5	100.0	15	3	US-09-038-073-1290	Sequence 1290, Ap
C 418	5	100.0	15	2	US-08-930-371-16	Sequence 16, Appl	C 491	5	100.0	15	3	US-09-038-073-1291	Sequence 1291, Ap
C 419	5	100.0	15	2	US-08-930-371-20	Sequence 20, Appl	C 492	5	100.0	15	3	US-09-038-073-1292	Sequence 1292, Ap
C 420	5	100.0	15	2	US-09-007-961-42	Sequence 42, Appl	C 493	5	100.0	15	3	US-09-038-073-2089	Sequence 2089, Ap
C 421	5	100.0	15	2	US-08-247-629-8	Sequence 8, Appl	C 494	5	100.0	15	3	US-09-038-073-2100	Sequence 2100, Ap
C 422	5	100.0	15	3	US-08-247-629-9	Sequence 9, Appl	C 495	5	100.0	15	3	US-09-038-073-2101	Sequence 2101, Ap
C 423	5	100.0	15	3	US-09-058-746-20	Sequence 20, Appl	C 496	5	100.0	15	3	US-09-038-073-2130	Sequence 2130, Ap
C 424	5	100.0	15	3	US-08-544-381B-114	Sequence 114, App	C 497	5	100.0	15	3	US-09-038-073-2274	Sequence 2274, Ap
C 425	5	100.0	15	3	US-09-116-115-14	Sequence 14, Appl	C 498	5	100.0	15	3	US-09-038-073-2275	Sequence 2275, Ap
C 426	5	100.0	15	3	US-08-949-770-4	Sequence 4, Appl	C 499	5	100.0	15	3	US-09-038-073-2295	Sequence 2295, Ap
C 427	5	100.0	15	3	US-08-827-036A-3	Sequence 3, Appl	C 500	5	100.0	15	3	US-09-038-073-2296	Sequence 2296, Ap
C 428	5	100.0	15	3	US-08-913-833-15	Sequence 15, Appl	C 501	5	100.0	15	3	US-09-038-073-2297	Sequence 2297, Ap
C 429	5	100.0	15	3	US-08-913-833-20	Sequence 20, Appl	C 502	5	100.0	15	3	US-09-289-752-7	Sequence 7, Appl
C 430	5	100.0	15	3	US-08-913-833-24	Sequence 24, Appl	C 503	5	100.0	15	3	US-08-793-660B-23	Sequence 23, Appl
C 431	5	100.0	15	3	US-08-913-833-25	Sequence 25, Appl	C 504	5	100.0	15	3	US-08-797-812-4	Sequence 4, Appl
C 432	5	100.0	15	3	US-08-913-833-30	Sequence 30, Appl	C 505	5	100.0	15	3	US-09-180-437-221	Sequence 221, App
C 433	5	100.0	15	3	US-08-913-833-63	Sequence 63, Appl	C 506	5	100.0	15	3	US-09-438-142-20	Sequence 20, Appl
C 434	5	100.0	15	3	US-09-134-855-4	Sequence 4, Appl	C 507	5	100.0	15	3	US-09-593-323-41	Sequence 41, Appl
C 435	5	100.0	15	3	US-09-182-975-18	Sequence 18, Appl	C 508	5	100.0	15	3	US-09-267-439-44	Sequence 44, Appl
C 436	5	100.0	15	3	US-09-182-975-20	Sequence 20, Appl	C 509	5	100.0	15	3	US-09-346-510B-13	Sequence 13, Appl
C 437	5	100.0	15	3	US-09-064-156A-178	Sequence 178, App	C 510	5	100.0	15	3	US-09-286-682A-1	Sequence 1, Appl
C 438	5	100.0	15	3	US-09-064-156A-311	Sequence 311, App	C 511	5	100.0	15	3	US-09-286-682A-2	Sequence 2, Appl
C 439	5	100.0	15	3	US-09-064-156A-346	Sequence 346, App	C 512	5	100.0	15	3	US-09-594-108-41	Sequence 41, Appl
C 440	5	100.0	15	3	US-09-064-156A-356	Sequence 356, App	C 513	5	100.0	15	3	US-09-344-300-41	Sequence 41, Appl
C 441	5	100.0	15	3	US-09-064-156A-357	Sequence 357, App	C 514	5	100.0	15	4	US-09-541-762-14	Sequence 14, Appl
C 442	5	100.0	15	3	US-09-064-156A-367	Sequence 367, App	C 515	5	100.0	15	4	US-08-424-991B-3	Sequence 3, Appl
C 443	5	100.0	15	3	US-09-064-156A-497	Sequence 497, App	C 516	5	100.0	15	4	US-08-933-219B-1	Sequence 1, Appl
C 444	5	100.0	15	3	US-09-071-845-59	Sequence 59, Appl	C 517	5	100.0	15	4	US-09-580-794C-15	Sequence 15, Appl
C 445	5	100.0	15	3	US-09-071-845-60	Sequence 60, Appl	C 518	5	100.0	15	4	US-09-580-794C-20	Sequence 20, Appl
C 446	5	100.0	15	3	US-09-071-845-61	Sequence 61, Appl	C 519	5	100.0	15	4	US-09-580-794C-24	Sequence 24, Appl
C 447	5	100.0	15	3	US-09-071-845-123	Sequence 123, App	C 520	5	100.0	15	4	US-09-580-794C-25	Sequence 25, Appl
C 448	5	100.0	15	3	US-09-071-845-170	Sequence 170, App	C 521	5	100.0	15	4	US-09-580-794C-30	Sequence 30, Appl
C 449	5	100.0	15	3	US-09-071-845-171	Sequence 171, App	C 522	5	100.0	15	4	US-09-580-794C-63	Sequence 63, Appl
C 450	5	100.0	15	3	US-09-071-845-200	Sequence 200, App	C 523	5	100.0	15	4	US-09-081-646-1	Sequence 1, Appl
C 451	5	100.0	15	3	US-09-071-845-201	Sequence 201, App	C 524	5	100.0	15	4	US-09-081-646-235	Sequence 235, App
C 452	5	100.0	15	3	US-09-071-845-202	Sequence 202, App	C 525	5	100.0	15	4	US-09-081-646-288	Sequence 288, App
C 453	5	100.0	15	3	US-09-071-845-259	Sequence 259, App	C 526	5	100.0	15	4	US-09-081-646-336	Sequence 336, App
C 454	5	100.0	15	3	US-09-071-845-260	Sequence 260, App	C 527	5	100.0	15	4	US-09-081-646-346	Sequence 346, App
C 455	5	100.0	15	3	US-09-071-845-261	Sequence 261, App	C 528	5	100.0	15	4	US-09-081-646-364	Sequence 364, App
C 456	5	100.0	15	3	US-09-071-845-323	Sequence 323, App	C 529	5	100.0	15	4	US-09-081-646-472	Sequence 472, App
C 457	5	100.0	15	3	US-09-071-845-324	Sequence 324, App	C 530	5	100.0	15	4	US-09-081-646-566	Sequence 566, App
C 458	5	100.0	15	3	US-09-071-845-420	Sequence 420, App	C 531	5	100.0	15	4	US-09-081-646-650	Sequence 650, App
C 459	5	100.0	15	3	US-09-071-845-536	Sequence 536, App	C 532	5	100.0	15	4	US-09-081-646-764	Sequence 764, App
C 460	5	100.0	15	3	US-09-071-845-543	Sequence 543, App	C 533	5	100.0	15	4	US-09-364-320-11	Sequence 11, Appl
C 461	5	100.0	15	3	US-09-071-845-554	Sequence 554, App	C 534	5	100.0	15	4	US-09-628-959-13	Sequence 13, Appl
C 462	5	100.0	15	3	US-09-071-845-600	Sequence 600, App	C 535	5	100.0	15	4	US-09-628-959-15	Sequence 15, Appl
C 463	5	100.0	15	3	US-09-071-845-601	Sequence 601, App	C 536	5	100.0	15	4	US-08-653-648A-51	Sequence 51, Appl
C 464	5	100.0	15	3	US-09-071-845-602	Sequence 602, App	C 537	5	100.0	15	4	US-09-321-481-1	Sequence 1, Appl
C 465	5	100.0	15	3	US-09-071-845-691	Sequence 691, App	C 538	5	100.0	15	4	US-08-461-210-23	Sequence 23, Appl

539	5	100.0	15	4	US-08-687-387-2	Sequence 2, Appl1	Sequence 28, Appl1
540	5	100.0	15	4	US-09-780-908-11	Sequence 11, Appl1	Sequence 5, Appl1
541	5	100.0	15	4	US-09-034-113-7	Sequence 7, Appl1	Sequence 5, Appl1
542	5	100.0	15	4	US-09-073-138-44	Sequence 44, Appl1	Sequence 48, Appl1
543	5	100.0	15	4	US-09-780-954A-11	Sequence 11, Appl1	Sequence 48, Appl1
544	5	100.0	15	4	US-10-041-614-13	Sequence 13, Appl1	Sequence 5669, Ap
545	5	100.0	15	4	US-10-041-614-15	Sequence 15, Appl1	Sequence 5757, Ap
546	5	100.0	15	4	US-09-816-089A-10	Sequence 10, Appl1	Sequence 5878, Ap
547	5	100.0	15	4	US-09-423-097-10	Sequence 10, Appl1	Sequence 5936, Ap
548	5	100.0	15	4	US-10-112-547-24	Sequence 24, Appl1	Sequence 5944, Ap
549	5	100.0	15	4	US-09-564-418-46	Sequence 46, Appl1	Sequence 5944, Ap
550	5	100.0	15	4	US-09-105-470B-22	Sequence 22, Appl1	Sequence 6042, Ap
551	5	100.0	15	4	US-10-112-241-24	Sequence 24, Appl1	Sequence 6084, Ap
552	5	100.0	15	4	US-09-688-078-20	Sequence 20, Appl1	Sequence 6100, Ap
553	5	100.0	15	4	US-10-104-611-24	Sequence 24, Appl1	Sequence 7013, Ap
554	5	100.0	15	5	PCT-US94-00265-13	Sequence 13, Appl1	Sequence 7037, Ap
555	5	100.0	15	6	5182195-22	Patent No. 5182195	Sequence 7068, Ap
556	5	100.0	15	6	5182195-32	Patent No. 5182195	Sequence 7133, Ap
557	5	100.0	15	6	5182195-51	Patent No. 5182195	Sequence 7133, Ap
558	5	100.0	15	6	5212286-67	Patent No. 5212286	Sequence 7133, Ap
559	5	100.0	15	6	5422260-7	Patent No. 5422260	Sequence 7133, Ap
560	5	100.0	16	1	US-08-093-884-33	Sequence 33, Appl1	Sequence 7133, Ap
561	5	100.0	16	1	US-08-093-884-34	Sequence 34, Appl1	Sequence 7133, Ap
562	5	100.0	16	1	US-08-093-884-37	Sequence 37, Appl1	Sequence 7133, Ap
563	5	100.0	16	1	US-07-744-282C-121	Sequence 121, App	Sequence 7133, Ap
564	5	100.0	16	1	US-08-129-719-5	Sequence 5, Appl1	Sequence 7133, Ap
565	5	100.0	16	1	US-08-293-219-24	Sequence 24, Appl1	Sequence 7133, Ap
566	5	100.0	16	1	US-08-271-880A-6	Sequence 6, Appl1	Sequence 7133, Ap
567	5	100.0	16	1	US-08-390-878-10	Sequence 10, Appl1	Sequence 7133, Ap
568	5	100.0	16	1	US-08-306-871-5	Sequence 5, Appl1	Sequence 7133, Ap
569	5	100.0	16	1	US-08-569-959-5	Sequence 5, Appl1	Sequence 7133, Ap
570	5	100.0	16	1	US-08-753-147-139	Sequence 139, App	Sequence 7133, Ap
571	5	100.0	16	1	US-08-753-147-187	Sequence 187, App	Sequence 7133, Ap
572	5	100.0	16	1	US-08-148-058A-34	Sequence 34, Appl1	Sequence 7133, Ap
573	5	100.0	16	1	US-08-148-058A-36	Sequence 36, Appl1	Sequence 7133, Ap
574	5	100.0	16	1	US-08-478-042-34	Sequence 34, Appl1	Sequence 7133, Ap
575	5	100.0	16	1	US-08-478-042-36	Sequence 36, Appl1	Sequence 7133, Ap
576	5	100.0	16	1	US-08-645-215-34	Sequence 34, Appl1	Sequence 7133, Ap
577	5	100.0	16	1	US-08-645-215-36	Sequence 36, Appl1	Sequence 7133, Ap
578	5	100.0	16	2	US-08-292-620A-1551	Sequence 1551, Ap	Sequence 7133, Ap
579	5	100.0	16	2	US-08-292-620A-1555	Sequence 1555, Ap	Sequence 7133, Ap
580	5	100.0	16	2	US-08-466-604-34	Sequence 34, Appl1	Sequence 7133, Ap
581	5	100.0	16	2	US-08-466-604-36	Sequence 36, Appl1	Sequence 7133, Ap
582	5	100.0	16	2	US-08-256-568B-48	Sequence 48, Appl1	Sequence 7133, Ap
583	5	100.0	16	2	US-08-644-034A-8	Sequence 8, Appl1	Sequence 7133, Ap
584	5	100.0	16	2	US-08-644-034A-18	Sequence 18, Appl1	Sequence 7133, Ap
585	5	100.0	16	2	US-08-770-235A-38	Sequence 38, Appl1	Sequence 7133, Ap
586	5	100.0	16	2	US-08-910-408-6	Sequence 6, Appl1	Sequence 7133, Ap
587	5	100.0	16	2	US-08-544-381B-192	Sequence 192, App	Sequence 7133, Ap
588	5	100.0	16	3	US-08-913-833-64	Sequence 64, Appl1	Sequence 7133, Ap
589	5	100.0	16	3	US-09-040-025-11	Sequence 11, Appl1	Sequence 7133, Ap
590	5	100.0	16	3	US-08-811-566-14	Sequence 14, Appl1	Sequence 7133, Ap
591	5	100.0	16	3	US-08-795-430-45	Sequence 45, Appl1	Sequence 7133, Ap
592	5	100.0	16	3	US-09-071-845-1551	Sequence 1551, Ap	Sequence 7133, Ap
593	5	100.0	16	3	US-09-071-845-1555	Sequence 1555, Ap	Sequence 7133, Ap
594	5	100.0	16	3	US-09-068-195-2	Sequence 2, Appl1	Sequence 7133, Ap
595	5	100.0	16	3	US-09-249-215-6	Sequence 6, Appl1	Sequence 7133, Ap
596	5	100.0	16	3	US-09-038-369B-48	Sequence 48, Appl1	Sequence 7133, Ap
597	5	100.0	16	3	US-08-413-740A-204	Sequence 204, App	Sequence 7133, Ap
598	5	100.0	16	3	US-08-797-812-9	Sequence 9, Appl1	Sequence 7133, Ap
599	5	100.0	16	3	US-09-160-588-2	Sequence 2, Appl1	Sequence 7133, Ap
600	5	100.0	16	3	US-09-160-588-3	Sequence 3, Appl1	Sequence 7133, Ap
601	5	100.0	16	3	US-09-040-025-11	Sequence 11, Appl1	Sequence 7133, Ap
602	5	100.0	16	4	US-08-778-794A-1	Sequence 1, Appl1	Sequence 7133, Ap
603	5	100.0	16	4	US-09-580-794C-64	Sequence 64, Appl1	Sequence 7133, Ap
604	5	100.0	16	4	US-09-311-912-40	Sequence 40, Appl1	Sequence 7133, Ap
605	5	100.0	16	4	US-09-355-700-45	Sequence 45, Appl1	Sequence 7133, Ap
606	5	100.0	16	4	US-09-034-756-14	Sequence 14, Appl1	Sequence 7133, Ap
607	5	100.0	16	4	US-09-043-816E-16	Sequence 16, Appl1	Sequence 7133, Ap
608	5	100.0	16	4	US-09-043-816E-20	Sequence 20, Appl1	Sequence 7133, Ap
609	5	100.0	16	4	US-09-043-816E-25	Sequence 25, Appl1	Sequence 7133, Ap
610	5	100.0	16	4	US-09-043-816E-26	Sequence 26, Appl1	Sequence 7133, Ap
611	5	100.0	16	4	US-09-341-399-1	Sequence 1, Appl1	Sequence 7133, Ap

685	1	US-08-373-124A-2357	Sequence 2357, Ap	758	5	100.0	17	2	US-08-374-652C-73	Sequence 73, Appl
686	1	US-08-373-124A-2499	Sequence 2499, Ap	759	5	100.0	17	2	US-08-292-620A-1633	Sequence 1633, Ap
687	1	US-08-373-124A-2541	Sequence 2541, Ap	760	5	100.0	17	2	US-08-292-620A-1661	Sequence 1661, Ap
688	1	US-08-373-124A-2543	Sequence 2543, Ap	761	5	100.0	17	2	US-08-292-620A-1685	Sequence 1685, Ap
689	1	US-08-373-124A-2545	Sequence 2545, Ap	762	5	100.0	17	2	US-08-292-620A-1686	Sequence 1686, Ap
690	1	US-08-373-124A-2547	Sequence 2547, Ap	763	5	100.0	17	2	US-08-292-620A-1687	Sequence 1687, Ap
691	1	US-08-393-219-22	Sequence 22, Appl	764	5	100.0	17	2	US-08-292-620A-1738	Sequence 1738, Ap
692	1	US-08-597-495B-15	Sequence 15, Appl	765	5	100.0	17	2	US-08-292-620A-1831	Sequence 1831, Ap
693	1	US-08-458-067-39	Sequence 39, Appl	766	5	100.0	17	2	US-08-292-620A-1874	Sequence 1874, Ap
694	1	US-08-435-634-399	Sequence 399, Appl	767	5	100.0	17	2	US-08-292-620A-1881	Sequence 1881, Ap
695	1	US-08-435-634-489	Sequence 489, Appl	768	5	100.0	17	2	US-08-292-620A-1916	Sequence 1916, Ap
696	1	US-08-435-634-490	Sequence 490, Appl	769	5	100.0	17	2	US-08-292-620A-1917	Sequence 1917, Ap
697	1	US-08-435-634-491	Sequence 491, Appl	770	5	100.0	17	2	US-08-292-620A-1923	Sequence 1923, Ap
698	1	US-08-435-634-515	Sequence 515, Appl	771	5	100.0	17	2	US-08-292-620A-1924	Sequence 1924, Ap
699	1	US-08-435-634-516	Sequence 516, Appl	772	5	100.0	17	2	US-08-292-620A-1943	Sequence 1943, Ap
700	1	US-08-638-911A-47	Sequence 47, Appl	773	5	100.0	17	2	US-08-493-197-8	Sequence 8, Appl
701	1	US-08-667-079B-14	Sequence 14, Appl	774	5	100.0	17	2	US-08-485-885-1	Sequence 1, Appl
702	1	US-08-327-525A-6	Sequence 6, Appl	775	5	100.0	17	2	US-08-117-952-577	Sequence 577, Appl
703	1	US-08-327-525A-28	Sequence 28, Appl	776	5	100.0	17	2	US-08-502-046-17	Sequence 17, Appl
704	1	US-08-758-306-93	Sequence 93, Appl	777	5	100.0	17	2	US-07-923-871C-16	Sequence 16, Appl
705	1	US-08-758-306-95	Sequence 95, Appl	778	5	100.0	17	2	US-08-717-587A-5	Sequence 5, Appl
706	1	US-08-758-306-97	Sequence 97, Appl	779	5	100.0	17	2	US-08-852-407-2	Sequence 2, Appl
707	1	US-08-758-306-99	Sequence 99, Appl	780	5	100.0	17	2	US-08-852-407-3	Sequence 3, Appl
708	1	US-08-758-306-221	Sequence 221, Appl	781	5	100.0	17	2	US-08-737-716-9	Sequence 6, Appl
709	1	US-08-758-306-223	Sequence 223, Appl	782	5	100.0	17	2	US-08-531-137B-6	Sequence 6, Appl
710	1	US-08-758-306-225	Sequence 225, Appl	783	5	100.0	17	2	US-08-331-137B-28	Sequence 28, Appl
711	1	US-08-758-306-241	Sequence 241, Appl	784	5	100.0	17	2	US-08-388-353-632	Sequence 632, Appl
712	1	US-08-758-306-243	Sequence 243, Appl	785	5	100.0	17	3	US-08-488-551B-632	Sequence 632, Appl
713	1	US-08-758-306-245	Sequence 245, Appl	786	5	100.0	17	3	US-08-754-490-5	Sequence 5, Appl
714	1	US-08-758-306-337	Sequence 337, Appl	787	5	100.0	17	3	US-08-817-145-7	Sequence 7, Appl
715	1	US-08-758-306-339	Sequence 339, Appl	788	5	100.0	17	3	US-08-985-162-101	Sequence 101, Appl
716	1	US-08-758-306-799	Sequence 799, Appl	789	5	100.0	17	3	US-08-985-162-128	Sequence 128, Appl
717	1	US-08-758-306-801	Sequence 801, Appl	790	5	100.0	17	3	US-08-985-162-129	Sequence 129, Appl
718	1	US-08-758-306-861	Sequence 861, Appl	791	5	100.0	17	3	US-08-985-162-130	Sequence 130, Appl
719	1	US-08-758-306-863	Sequence 863, Appl	792	5	100.0	17	3	US-08-985-162-298	Sequence 298, Appl
720	1	US-08-758-306-865	Sequence 865, Appl	793	5	100.0	17	3	US-08-985-162-299	Sequence 299, Appl
721	1	US-08-758-306-1077	Sequence 1077, Ap	794	5	100.0	17	3	US-08-985-162-300	Sequence 300, Appl
722	1	US-08-758-306-1333	Sequence 1333, Ap	795	5	100.0	17	3	US-08-985-162-317	Sequence 317, Appl
723	1	US-08-758-306-1335	Sequence 1335, Ap	796	5	100.0	17	3	US-08-985-162-318	Sequence 318, Appl
724	1	US-08-435-628-234	Sequence 234, Appl	797	5	100.0	17	3	US-08-985-162-439	Sequence 439, Appl
725	1	US-08-435-628-236	Sequence 236, Appl	798	5	100.0	17	3	US-08-985-162-440	Sequence 440, Appl
726	1	US-08-435-628-238	Sequence 238, Appl	799	5	100.0	17	3	US-08-985-162-441	Sequence 441, Appl
727	1	US-08-435-628-240	Sequence 240, Appl	800	5	100.0	17	3	US-08-985-162-442	Sequence 442, Appl
728	1	US-08-435-628-242	Sequence 242, Appl	801	5	100.0	17	3	US-08-985-162-508	Sequence 508, Appl
729	1	US-08-435-628-272	Sequence 272, Appl	802	5	100.0	17	3	US-08-985-162-509	Sequence 509, Appl
730	1	US-08-435-628-446	Sequence 446, Appl	803	5	100.0	17	3	US-08-985-162-510	Sequence 510, Appl
731	1	US-08-435-628-448	Sequence 448, Appl	804	5	100.0	17	3	US-08-985-162-614	Sequence 614, Appl
732	1	US-08-435-628-450	Sequence 450, Appl	805	5	100.0	17	3	US-08-985-162-615	Sequence 615, Appl
733	1	US-08-435-628-452	Sequence 452, Appl	806	5	100.0	17	3	US-08-985-162-616	Sequence 616, Appl
734	1	US-08-435-628-492	Sequence 492, Appl	807	5	100.0	17	3	US-08-985-162-619	Sequence 619, Appl
735	1	US-08-435-628-494	Sequence 494, Appl	808	5	100.0	17	3	US-08-985-162-620	Sequence 620, Appl
736	1	US-08-435-628-1253	Sequence 1253, Ap	809	5	100.0	17	3	US-08-985-162-739	Sequence 739, Appl
737	1	US-08-435-628-1255	Sequence 1255, Ap	810	5	100.0	17	3	US-08-985-162-740	Sequence 740, Appl
738	1	US-08-435-628-1257	Sequence 1257, Ap	811	5	100.0	17	3	US-08-985-162-741	Sequence 741, Appl
739	1	US-08-435-628-1259	Sequence 1259, Ap	812	5	100.0	17	3	US-08-985-162-772	Sequence 772, Appl
740	1	US-08-435-628-1297	Sequence 1297, Ap	813	5	100.0	17	3	US-08-985-162-773	Sequence 773, Appl
741	1	US-08-435-628-1537	Sequence 1537, Ap	814	5	100.0	17	3	US-08-985-162-774	Sequence 774, Appl
742	1	US-08-435-628-1539	Sequence 1539, Ap	815	5	100.0	17	3	US-08-985-162-775	Sequence 775, Appl
743	1	US-08-435-628-1541	Sequence 1541, Ap	816	5	100.0	17	3	US-08-988-706-20	Sequence 20, Appl
744	1	US-08-435-628-1543	Sequence 1543, Ap	817	5	100.0	17	3	US-08-988-706-21	Sequence 21, Appl
745	1	US-08-435-628-2317	Sequence 2317, Ap	818	5	100.0	17	3	US-08-675-566-61	Sequence 61, Appl
746	1	US-08-435-628-2355	Sequence 2353, Ap	819	5	100.0	17	3	US-08-883-610A-5	Sequence 5, Appl
747	1	US-08-435-628-2355	Sequence 2353, Ap	820	5	100.0	17	3	US-08-883-610A-15	Sequence 15, Appl
748	1	US-08-435-628-2357	Sequence 2357, Ap	821	5	100.0	17	3	US-08-998-099-62	Sequence 62, Appl
749	1	US-08-435-628-2399	Sequence 2499, Ap	822	5	100.0	17	3	US-08-922-505A-5	Sequence 5, Appl
750	1	US-08-435-628-2341	Sequence 2541, Ap	823	5	100.0	17	3	US-09-071-845-1633	Sequence 1633, Ap
751	1	US-08-435-628-2343	Sequence 2543, Ap	824	5	100.0	17	3	US-09-071-845-1661	Sequence 1661, Ap
752	1	US-08-435-628-2345	Sequence 2545, Ap	825	5	100.0	17	3	US-09-071-845-1685	Sequence 1685, Ap
753	1	US-08-435-628-2347	Sequence 2547, Ap	826	5	100.0	17	3	US-09-071-845-1686	Sequence 1686, Ap
754	2	US-08-793-107-4	Sequence 4, Appl	827	5	100.0	17	3	US-09-071-845-1687	Sequence 1687, Ap
755	2	US-08-793-107-6	Sequence 6, Appl	828	5	100.0	17	3	US-09-071-845-1738	Sequence 1738, Ap
756	2	US-08-710-134-1	Sequence 1, Appl	829	5	100.0	17	3	US-09-071-845-1831	Sequence 1831, Ap
757	2	US-08-374-652C-69	Sequence 69, Appl	830	5	100.0	17	3	US-09-071-845-1874	Sequence 1874, Ap

831	5	100.0	17	3	US-09-071-845-1881	Sequence 1881, Ap	904	5	100.0	17	4	US-08-584-040-3768	Sequence 3768, Ap
832	5	100.0	17	3	US-09-071-845-1916	Sequence 1916, Ap	905	5	100.0	17	4	US-08-584-040-3769	Sequence 3769, Ap
833	5	100.0	17	3	US-09-071-845-1917	Sequence 1917, Ap	906	5	100.0	17	4	US-08-584-040-3770	Sequence 3770, Ap
834	5	100.0	17	3	US-09-071-845-1923	Sequence 1923, Ap	907	5	100.0	17	4	US-08-584-040-3928	Sequence 3928, Ap
835	5	100.0	17	3	US-09-071-845-1924	Sequence 1924, Ap	908	5	100.0	17	4	US-08-584-040-3929	Sequence 3929, Ap
836	5	100.0	17	3	US-09-071-845-1943	Sequence 1943, Ap	909	5	100.0	17	4	US-08-584-040-3939	Sequence 3939, Ap
837	5	100.0	17	3	US-08-925-018-5	Sequence 5, Appli	910	5	100.0	17	4	US-08-584-040-3940	Sequence 3940, Ap
838	5	100.0	17	3	US-08-760-615-13	Sequence 13, Appli	911	5	100.0	17	4	US-08-584-040-3941	Sequence 3941, Ap
839	5	100.0	17	3	US-09-411-578-7	Sequence 7, Appli	912	5	100.0	17	4	US-08-584-040-3951	Sequence 3951, Ap
840	5	100.0	17	3	US-09-411-578-9	Sequence 9, Appli	913	5	100.0	17	4	US-08-584-040-3971	Sequence 3971, Ap
841	5	100.0	17	3	US-09-411-578-11	Sequence 11, Appli	914	5	100.0	17	4	US-08-584-040-3972	Sequence 3972, Ap
842	5	100.0	17	3	US-09-411-578-13	Sequence 13, Appli	915	5	100.0	17	4	US-08-584-040-4032	Sequence 4032, Ap
843	5	100.0	17	3	US-09-411-578-15	Sequence 15, Appli	916	5	100.0	17	4	US-08-584-040-4033	Sequence 4033, Ap
844	5	100.0	17	3	US-09-411-578-17	Sequence 17, Appli	917	5	100.0	17	4	US-08-584-040-4057	Sequence 4057, Ap
845	5	100.0	17	3	US-09-411-578-19	Sequence 19, Appli	918	5	100.0	17	4	US-08-584-040-4058	Sequence 4058, Ap
846	5	100.0	17	3	US-09-411-578-21	Sequence 21, Appli	919	5	100.0	17	4	US-08-584-040-4120	Sequence 4120, Ap
847	5	100.0	17	3	US-09-411-578-23	Sequence 23, Appli	920	5	100.0	17	4	US-08-584-040-4121	Sequence 4121, Ap
848	5	100.0	17	3	US-09-411-578-25	Sequence 25, Appli	921	5	100.0	17	4	US-08-584-040-4148	Sequence 4148, Ap
849	5	100.0	17	3	US-09-411-578-27	Sequence 27, Appli	922	5	100.0	17	4	US-08-584-040-4149	Sequence 4149, Ap
850	5	100.0	17	3	US-09-411-578-29	Sequence 29, Appli	923	5	100.0	17	4	US-08-584-040-4150	Sequence 4150, Ap
851	5	100.0	17	3	US-09-411-578-31	Sequence 31, Appli	924	5	100.0	17	4	US-08-584-040-4151	Sequence 4151, Ap
852	5	100.0	17	3	US-09-411-578-33	Sequence 33, Appli	925	5	100.0	17	4	US-08-584-040-4152	Sequence 4152, Ap
853	5	100.0	17	3	US-09-411-578-35	Sequence 35, Appli	926	5	100.0	17	4	US-08-584-040-4358	Sequence 4358, Ap
854	5	100.0	17	3	US-09-411-578-37	Sequence 37, Appli	927	5	100.0	17	4	US-08-584-040-4359	Sequence 4359, Ap
855	5	100.0	17	3	US-08-793-6608-20	Sequence 20, Appli	928	5	100.0	17	4	US-08-584-040-5318	Sequence 5318, Ap
856	5	100.0	17	3	US-08-793-6608-21	Sequence 21, Appli	929	5	100.0	17	4	US-08-584-040-5319	Sequence 5319, Ap
857	5	100.0	17	3	US-08-936-0948-5	Sequence 5, Appli	930	5	100.0	17	4	US-08-584-040-5332	Sequence 5332, Ap
858	5	100.0	17	3	US-08-936-0948-17	Sequence 17, Appli	931	5	100.0	17	4	US-08-584-040-5373	Sequence 5373, Ap
859	5	100.0	17	3	US-09-260-9528-5	Sequence 5, Appli	932	5	100.0	17	4	US-08-584-040-5376	Sequence 5376, Ap
860	5	100.0	17	3	US-09-158-765-6	Sequence 6, Appli	933	5	100.0	17	4	US-08-584-040-5377	Sequence 5377, Ap
861	5	100.0	17	3	US-09-158-765-28	Sequence 28, Appli	934	5	100.0	17	4	US-08-584-040-5574	Sequence 5574, Ap
862	5	100.0	17	3	US-09-253-341-5	Sequence 5, Appli	935	5	100.0	17	4	US-08-584-040-5640	Sequence 5640, Ap
863	5	100.0	17	3	US-09-253-3313-5	Sequence 5, Appli	936	5	100.0	17	4	US-08-584-040-5722	Sequence 5722, Ap
864	5	100.0	17	3	US-08-803-346-10	Sequence 10, Appli	937	5	100.0	17	4	US-08-584-040-5723	Sequence 5723, Ap
865	5	100.0	17	3	US-09-068-0518-15	Sequence 15, Appli	938	5	100.0	17	4	US-08-584-040-5724	Sequence 5724, Ap
866	5	100.0	17	4	US-07-974-409C-75	Sequence 75, Appli	939	5	100.0	17	4	US-08-584-040-5853	Sequence 5853, Ap
867	5	100.0	17	4	US-09-218-979-9	Sequence 9, Appli	940	5	100.0	17	4	US-08-584-040-5854	Sequence 5854, Ap
868	5	100.0	17	4	US-08-424-9918-11	Sequence 11, Appli	941	5	100.0	17	4	US-08-584-040-5855	Sequence 5855, Ap
869	5	100.0	17	4	US-09-261-040-5	Sequence 5, Appli	942	5	100.0	17	4	US-08-584-040-5856	Sequence 5856, Ap
870	5	100.0	17	4	US-09-007-8788-50	Sequence 50, Appli	943	5	100.0	17	4	US-08-584-040-5857	Sequence 5857, Ap
871	5	100.0	17	4	US-08-584-040-1496	Sequence 1496, Ap	944	5	100.0	17	4	US-08-584-040-5883	Sequence 5883, Ap
872	5	100.0	17	4	US-08-584-040-1497	Sequence 1497, Ap	945	5	100.0	17	4	US-08-584-040-5884	Sequence 5884, Ap
873	5	100.0	17	4	US-08-584-040-1587	Sequence 1587, Ap	946	5	100.0	17	4	US-08-584-040-6085	Sequence 6085, Ap
874	5	100.0	17	4	US-08-584-040-1726	Sequence 1726, Ap	947	5	100.0	17	4	US-08-584-040-6086	Sequence 6086, Ap
875	5	100.0	17	4	US-08-584-040-1727	Sequence 1727, Ap	948	5	100.0	17	4	US-08-584-040-6087	Sequence 6087, Ap
876	5	100.0	17	4	US-08-584-040-1728	Sequence 1728, Ap	949	5	100.0	17	4	US-08-584-040-6088	Sequence 6088, Ap
877	5	100.0	17	4	US-08-584-040-1729	Sequence 1729, Ap	950	5	100.0	17	4	US-08-584-040-6089	Sequence 6089, Ap
878	5	100.0	17	4	US-08-584-040-1754	Sequence 1754, Ap	951	5	100.0	17	4	US-08-584-040-7319	Sequence 7319, Ap
879	5	100.0	17	4	US-08-584-040-1755	Sequence 1755, Ap	952	5	100.0	17	4	US-08-584-040-7449	Sequence 7449, Ap
880	5	100.0	17	4	US-08-584-040-1756	Sequence 1756, Ap	953	5	100.0	17	4	US-08-584-040-7961	Sequence 7961, Ap
881	5	100.0	17	4	US-08-584-040-1921	Sequence 1921, Ap	954	5	100.0	17	4	US-08-584-040-7962	Sequence 7962, Ap
882	5	100.0	17	4	US-08-584-040-2056	Sequence 2056, Ap	955	5	100.0	17	4	US-08-584-040-7963	Sequence 7963, Ap
883	5	100.0	17	4	US-08-584-040-2057	Sequence 2057, Ap	956	5	100.0	17	4	US-08-584-040-8122	Sequence 8122, Ap
884	5	100.0	17	4	US-08-584-040-2209	Sequence 2209, Ap	957	5	100.0	17	4	US-08-679-645-660	Sequence 660, App
885	5	100.0	17	4	US-08-584-040-2217	Sequence 2217, Ap	958	5	100.0	17	4	US-08-679-645-662	Sequence 662, App
886	5	100.0	17	4	US-08-584-040-2345	Sequence 2345, Ap	959	5	100.0	17	4	US-08-679-645-664	Sequence 664, App
887	5	100.0	17	4	US-08-584-040-2347	Sequence 2347, Ap	960	5	100.0	17	4	US-08-679-645-669	Sequence 669, App
888	5	100.0	17	4	US-08-584-040-2634	Sequence 2634, Ap	961	5	100.0	17	4	US-08-679-645-671	Sequence 671, App
889	5	100.0	17	4	US-08-584-040-2635	Sequence 2635, Ap	962	5	100.0	17	4	US-08-679-645-676	Sequence 676, App
890	5	100.0	17	4	US-08-584-040-2636	Sequence 2636, Ap	963	5	100.0	17	4	US-08-679-645-678	Sequence 678, App
891	5	100.0	17	4	US-08-584-040-2637	Sequence 2637, Ap	964	5	100.0	17	4	US-08-679-645-680	Sequence 680, App
892	5	100.0	17	4	US-08-584-040-2638	Sequence 2638, Ap	965	5	100.0	17	4	US-08-679-645-680	Sequence 680, App
893	5	100.0	17	4	US-08-584-040-2740	Sequence 2740, Ap	966	5	100.0	17	4	US-08-679-645-775	Sequence 775, App
894	5	100.0	17	4	US-08-584-040-2741	Sequence 2741, Ap	967	5	100.0	17	4	US-08-679-645-778	Sequence 778, App
895	5	100.0	17	4	US-08-584-040-2742	Sequence 2742, Ap	968	5	100.0	17	4	US-08-679-645-780	Sequence 780, App
896	5	100.0	17	4	US-08-584-040-2743	Sequence 2743, Ap	969	5	100.0	17	4	US-08-679-645-782	Sequence 782, App
897	5	100.0	17	4	US-08-584-040-2744	Sequence 2744, Ap	970	5	100.0	17	4	US-08-679-645-784	Sequence 784, App
898	5	100.0	17	4	US-08-584-040-2837	Sequence 2837, Ap	971	5	100.0	17	4	US-08-793-110-4	Sequence 4, Appli
899	5	100.0	17	4	US-08-584-040-2838	Sequence 2838, Ap	972	5	100.0	17	4	US-08-793-110-6	Sequence 6, Appli
900	5	100.0	17	4	US-08-584-040-2839	Sequence 2839, Ap	973	5	100.0	17	4	US-09-270-140A-54	Sequence 54, Appli
901	5	100.0	17	4	US-08-584-040-2852	Sequence 2852, Ap	974	5	100.0	17	4	US-09-115-475-10	Sequence 10, Appli
902	5	100.0	17	4	US-08-584-040-2853	Sequence 2853, Ap	975	5	100.0	17	4	US-08-793-109-5	Sequence 5, Appli
903	5	100.0	17	4	US-08-584-040-2854	Sequence 2854, Ap	976	5	100.0	17	4	US-08-793-109-7	Sequence 7, Appli

c 977	5	100.0	17	4	US-09-442-143A-40	Sequence 40, Appl	c1050	5	100.0	17	4	US-09-371-772B-1916	Sequence 1916, Ap
978	5	100.0	17	4	US-09-360-416-4	Sequence 4, Appl	c1051	5	100.0	17	4	US-09-371-772B-1917	Sequence 1917, Ap
979	5	100.0	17	4	US-09-060-482-5	Sequence 5, Appl	c1052	5	100.0	17	4	US-09-371-772B-1918	Sequence 1918, Ap
980	5	100.0	17	4	US-09-679-427-9	Sequence 9, Appl	c1053	5	100.0	17	4	US-09-371-772B-1919	Sequence 1919, Ap
981	5	100.0	17	4	US-09-527-030G-92	Sequence 92, Appl	c1054	5	100.0	17	4	US-09-371-772B-2125	Sequence 2125, Ap
982	5	100.0	17	4	US-09-527-030G-107	Sequence 107, Appl	c1055	5	100.0	17	4	US-09-371-772B-2126	Sequence 2126, Ap
c 983	5	100.0	17	4	US-09-479-645A-15	Sequence 15, Appl	c1056	5	100.0	17	4	US-09-371-772B-2220	Sequence 2220, Ap
c 984	5	100.0	17	4	US-09-479-645A-34	Sequence 34, Appl	c1057	5	100.0	17	4	US-09-371-772B-2221	Sequence 2221, Ap
985	5	100.0	17	4	US-09-916-228-10	Sequence 10, Appl	c1058	5	100.0	17	4	US-09-371-772B-2273	Sequence 2273, Ap
986	5	100.0	17	4	US-09-916-228-20	Sequence 20, Appl	c1059	5	100.0	17	4	US-09-371-772B-2276	Sequence 2276, Ap
c 987	5	100.0	17	4	US-09-588-995A-106	Sequence 106, Appl	c1060	5	100.0	17	4	US-09-371-772B-2277	Sequence 2277, Ap
c 988	5	100.0	17	4	US-09-916-956A-5	Sequence 5, Appl	c1061	5	100.0	17	4	US-09-371-772B-2464	Sequence 2464, Ap
c 989	5	100.0	17	4	US-09-673-809-33	Sequence 33, Appl	c1062	5	100.0	17	4	US-09-371-772B-2530	Sequence 2530, Ap
c 990	5	100.0	17	4	US-09-673-809-78	Sequence 78, Appl	c1063	5	100.0	17	4	US-09-371-772B-2604	Sequence 2604, Ap
991	5	100.0	17	4	US-09-474-432B-339	Sequence 339, Appl	c1064	5	100.0	17	4	US-09-371-772B-2605	Sequence 2605, Ap
992	5	100.0	17	4	US-09-474-432B-373	Sequence 373, Appl	c1065	5	100.0	17	4	US-09-371-772B-2606	Sequence 2606, Ap
993	5	100.0	17	4	US-09-474-432B-383	Sequence 383, Appl	c1066	5	100.0	17	4	US-09-371-772B-2712	Sequence 2712, Ap
994	5	100.0	17	4	US-09-474-432B-485	Sequence 485, Appl	c1067	5	100.0	17	4	US-09-371-772B-2713	Sequence 2713, Ap
995	5	100.0	17	4	US-09-474-432B-653	Sequence 653, Appl	c1068	5	100.0	17	4	US-09-371-772B-2714	Sequence 2714, Ap
c 996	5	100.0	17	4	US-09-873-873-5	Sequence 5, Appl	c1069	5	100.0	17	4	US-09-371-772B-2715	Sequence 2715, Ap
c 997	5	100.0	17	4	US-09-254-776B-16	Sequence 16, Appl	c1070	5	100.0	17	4	US-09-371-772B-2716	Sequence 2716, Ap
998	5	100.0	17	4	US-08-415-658-5	Sequence 5, Appl	c1071	5	100.0	17	4	US-09-371-772B-2728	Sequence 2728, Ap
999	5	100.0	17	4	US-09-371-772B-41	Sequence 41, Appl	c1072	5	100.0	17	4	US-09-371-772B-2729	Sequence 2729, Ap
1000	5	100.0	17	4	US-09-371-772B-42	Sequence 42, Appl	c1073	5	100.0	17	4	US-09-371-772B-2922	Sequence 2922, Ap
1001	5	100.0	17	4	US-09-371-772B-132	Sequence 132, Appl	c1074	5	100.0	17	4	US-09-371-772B-2923	Sequence 2923, Ap
1002	5	100.0	17	4	US-09-371-772B-271	Sequence 271, Appl	c1075	5	100.0	17	4	US-09-371-772B-2924	Sequence 2924, Ap
1003	5	100.0	17	4	US-09-371-772B-272	Sequence 272, Appl	c1076	5	100.0	17	4	US-09-371-772B-2925	Sequence 2925, Ap
1004	5	100.0	17	4	US-09-371-772B-273	Sequence 273, Appl	c1077	5	100.0	17	4	US-09-371-772B-2926	Sequence 2926, Ap
1005	5	100.0	17	4	US-09-371-772B-299	Sequence 299, Appl	c1078	5	100.0	17	4	US-09-371-772B-3128	Sequence 3128, Ap
1006	5	100.0	17	4	US-09-371-772B-299	Sequence 299, Appl	c1079	5	100.0	17	4	US-09-371-772B-3255	Sequence 3255, Ap
1007	5	100.0	17	4	US-09-371-772B-300	Sequence 300, Appl	c1080	5	100.0	17	4	US-09-371-772B-3744	Sequence 3744, Ap
1008	5	100.0	17	4	US-09-371-772B-301	Sequence 301, Appl	c1081	5	100.0	17	4	US-09-371-772B-3745	Sequence 3745, Ap
c1009	5	100.0	17	4	US-09-371-772B-466	Sequence 466, Appl	c1082	5	100.0	17	4	US-09-371-772B-3746	Sequence 3746, Ap
1010	5	100.0	17	4	US-09-371-772B-601	Sequence 601, Appl	c1083	5	100.0	17	4	US-09-371-772B-3905	Sequence 3905, Ap
1011	5	100.0	17	4	US-09-371-772B-602	Sequence 602, Appl	c1084	5	100.0	17	4	US-09-371-772B-4235	Sequence 4235, Ap
1012	5	100.0	17	4	US-09-371-772B-754	Sequence 754, Appl	c1085	5	100.0	17	4	US-09-371-772B-4236	Sequence 4236, Ap
1013	5	100.0	17	4	US-09-371-772B-754	Sequence 754, Appl	c1086	5	100.0	17	4	US-09-371-772B-4237	Sequence 4237, Ap
1014	5	100.0	17	4	US-09-371-772B-891	Sequence 891, Appl	c1087	5	100.0	17	4	US-09-371-772B-4238	Sequence 4238, Ap
1015	5	100.0	17	4	US-09-371-772B-892	Sequence 892, Appl	c1088	5	100.0	17	4	US-09-371-772B-4239	Sequence 4239, Ap
1016	5	100.0	17	4	US-09-371-772B-1158	Sequence 1158, Appl	c1089	5	100.0	17	4	US-09-371-772B-4338	Sequence 4338, Ap
1017	5	100.0	17	4	US-09-371-772B-1159	Sequence 1159, Appl	c1090	5	100.0	17	4	US-09-371-772B-4339	Sequence 4339, Ap
1018	5	100.0	17	4	US-09-371-772B-1160	Sequence 1160, Appl	c1091	5	100.0	17	4	US-09-371-772B-4340	Sequence 4340, Ap
1019	5	100.0	17	4	US-09-371-772B-1161	Sequence 1161, Appl	c1092	5	100.0	17	4	US-09-371-772B-4341	Sequence 4341, Ap
1020	5	100.0	17	4	US-09-371-772B-1162	Sequence 1162, Appl	c1093	5	100.0	17	4	US-09-371-772B-4500	Sequence 4500, Ap
c1021	5	100.0	17	4	US-09-371-772B-1264	Sequence 1264, Appl	c1094	5	100.0	17	4	US-09-371-772B-4501	Sequence 4501, Ap
c1022	5	100.0	17	4	US-09-371-772B-1265	Sequence 1265, Appl	c1095	5	100.0	17	4	US-09-371-772B-4528	Sequence 4528, Ap
c1023	5	100.0	17	4	US-09-371-772B-1267	Sequence 1266, Appl	c1096	5	100.0	17	4	US-09-371-772B-4529	Sequence 4529, Ap
c1024	5	100.0	17	4	US-09-371-772B-1267	Sequence 1267, Appl	c1097	5	100.0	17	4	US-09-371-772B-4530	Sequence 4530, Ap
c1025	5	100.0	17	4	US-09-371-772B-1377	Sequence 1376, Appl	c1098	5	100.0	17	4	US-09-371-772B-4742	Sequence 4742, Ap
1026	5	100.0	17	4	US-09-371-772B-1361	Sequence 1361, Appl	c1099	5	100.0	17	4	US-09-371-772B-4743	Sequence 4743, Ap
1027	5	100.0	17	4	US-09-371-772B-1362	Sequence 1362, Appl	c1100	5	100.0	17	4	US-09-371-772B-4744	Sequence 4744, Ap
1028	5	100.0	17	4	US-09-371-772B-1363	Sequence 1363, Appl	c1101	5	100.0	17	4	US-09-371-772B-4745	Sequence 4745, Ap
c1029	5	100.0	17	4	US-09-371-772B-1376	Sequence 1376, Appl	c1102	5	100.0	17	4	US-09-371-772B-4746	Sequence 4746, Ap
c1030	5	100.0	17	4	US-09-371-772B-1377	Sequence 1377, Appl	c1103	5	100.0	17	4	US-09-371-772B-4747	Sequence 4747, Ap
c1031	5	100.0	17	4	US-09-371-772B-1378	Sequence 1378, Appl	c1104	5	100.0	17	4	US-09-371-772B-4904	Sequence 4904, Ap
1032	5	100.0	17	4	US-09-371-772B-1535	Sequence 1535, Appl	c1105	5	100.0	17	4	US-09-371-772B-4905	Sequence 4905, Ap
1033	5	100.0	17	4	US-09-371-772B-1536	Sequence 1536, Appl	c1106	5	100.0	17	4	US-09-371-772B-4906	Sequence 4906, Ap
1034	5	100.0	17	4	US-09-371-772B-1537	Sequence 1537, Appl	c1107	5	100.0	17	4	US-09-371-772B-4907	Sequence 4907, Ap
1035	5	100.0	17	4	US-09-371-772B-1695	Sequence 1695, Appl	c1108	5	100.0	17	4	US-09-371-772B-4908	Sequence 4908, Ap
1036	5	100.0	17	4	US-09-371-772B-1696	Sequence 1696, Appl	c1109	5	100.0	17	4	US-09-371-772B-5077	Sequence 5077, Ap
1037	5	100.0	17	4	US-09-371-772B-1706	Sequence 1706, Appl	c1110	5	100.0	17	4	US-09-371-772B-5078	Sequence 5078, Ap
1038	5	100.0	17	4	US-09-371-772B-1707	Sequence 1707, Appl	c1111	5	100.0	17	4	US-09-371-772B-5079	Sequence 5079, Ap
1039	5	100.0	17	4	US-09-371-772B-1708	Sequence 1708, Appl	c1112	5	100.0	17	4	US-09-371-772B-5080	Sequence 5080, Ap
c1040	5	100.0	17	4	US-09-371-772B-1718	Sequence 1718, Appl	c1113	5	100.0	17	4	US-09-371-772B-5103	Sequence 5103, Ap
c1041	5	100.0	17	4	US-09-371-772B-1738	Sequence 1738, Appl	c1114	5	100.0	17	4	US-09-371-772B-5104	Sequence 5104, Ap
c1042	5	100.0	17	4	US-09-371-772B-1739	Sequence 1739, Appl	c1115	5	100.0	17	4	US-09-371-772B-5105	Sequence 5105, Ap
1043	5	100.0	17	4	US-09-371-772B-1789	Sequence 1789, Appl	c1116	5	100.0	17	4	US-09-371-772B-5106	Sequence 5106, Ap
1044	5	100.0	17	4	US-09-371-772B-1790	Sequence 1790, Appl	c1117	5	100.0	17	4	US-09-371-772B-5107	Sequence 5107, Ap
c1045	5	100.0	17	4	US-09-371-772B-1824	Sequence 1824, Appl	c1118	5	100.0	17	4	US-09-371-772B-5259	Sequence 5259, Ap
c1046	5	100.0	17	4	US-09-371-772B-1825	Sequence 1825, Appl	c1119	5	100.0	17	4	US-09-371-772B-5260	Sequence 5260, Ap
c1047	5	100.0	17	4	US-09-371-772B-1887	Sequence 1887, Appl	c1120	5	100.0	17	4	US-09-371-772B-5261	Sequence 5261, Ap
c1048	5	100.0	17	4	US-09-371-772B-1888	Sequence 1888, Appl	c1121	5	100.0	17	4	US-09-371-772B-5262	Sequence 5262, Ap
c1049	5	100.0	17	4	US-09-371-772B-1915	Sequence 1915, Appl	c1122	5	100.0	17	4	US-09-371-772B-5263	Sequence 5263, Ap



c1269	5	100.0	17	4	US-09-866-108A-8234	Sequence 8234, Ap	1342	5	100.0	18	1	US-08-061-697-14	Sequence 14, Appl
c1270	5	100.0	17	4	US-09-866-108A-8618	Sequence 8618, Ap	1343	5	100.0	18	1	US-08-031-143B-34	Sequence 34, Appl
c1271	5	100.0	17	4	US-09-866-108A-8619	Sequence 8619, Ap	c1344	5	100.0	18	1	US-08-050-232-12	Sequence 12, Appl
c1272	5	100.0	17	4	US-09-866-108A-8620	Sequence 8620, Ap	1345	5	100.0	18	1	US-08-131-355B-14	Sequence 14, Appl
c1273	5	100.0	17	4	US-09-866-108A-8621	Sequence 8621, Ap	c1346	5	100.0	18	1	US-08-239-924-4	Sequence 4, Appl
c1274	5	100.0	17	4	US-09-866-108A-8622	Sequence 8622, Ap	1347	5	100.0	18	1	US-08-235-503B-17	Sequence 17, Appl
c1275	5	100.0	17	4	US-09-866-108A-8623	Sequence 8623, Ap	1348	5	100.0	18	1	US-08-216-276A-2	Sequence 2, Appl
c1276	5	100.0	17	4	US-09-866-108A-8624	Sequence 8624, Ap	c1349	5	100.0	18	1	US-08-455-116-6	Sequence 6, Appl
c1277	5	100.0	17	4	US-09-866-108A-8625	Sequence 8625, Ap	1350	5	100.0	18	1	US-08-455-116-12	Sequence 12, Appl
c1278	5	100.0	17	4	US-09-866-108A-8626	Sequence 8626, Ap	1351	5	100.0	18	1	US-08-455-923-1	Sequence 1, Appl
c1279	5	100.0	17	4	US-09-866-108A-8627	Sequence 8627, Ap	1352	5	100.0	18	1	US-08-373-144A-35	Sequence 35, Appl
c1280	5	100.0	17	4	US-09-866-108A-8628	Sequence 8628, Ap	1353	5	100.0	18	1	US-08-488-212A-15	Sequence 15, Appl
c1281	5	100.0	17	4	US-09-866-108A-8629	Sequence 8629, Ap	c1354	5	100.0	18	1	US-08-143-219-5	Sequence 5, Appl
c1282	5	100.0	17	4	US-09-866-108A-8630	Sequence 8630, Ap	1355	5	100.0	18	1	US-08-143-219-19	Sequence 19, Appl
c1283	5	100.0	17	4	US-09-866-108A-8631	Sequence 8631, Ap	c1356	5	100.0	18	1	US-08-221-078A-11	Sequence 11, Appl
c1284	5	100.0	17	4	US-09-866-108A-8632	Sequence 8632, Ap	1357	5	100.0	18	1	US-08-411-796-329	Sequence 329, Appl
c1285	5	100.0	17	4	US-09-866-108A-8633	Sequence 8633, Ap	c1358	5	100.0	18	1	US-08-473-939-31	Sequence 31, Appl
c1286	5	100.0	17	4	US-09-866-108A-8634	Sequence 8634, Ap	1359	5	100.0	18	1	US-08-445-289B-27	Sequence 27, Appl
c1287	5	100.0	17	4	US-09-866-108A-8635	Sequence 8635, Ap	c1360	5	100.0	18	1	US-08-361-479-29	Sequence 29, Appl
c1288	5	100.0	17	4	US-09-866-108A-8636	Sequence 8636, Ap	1361	5	100.0	18	1	US-08-361-479-31	Sequence 31, Appl
c1289	5	100.0	17	4	US-09-866-108A-8637	Sequence 8637, Ap	c1362	5	100.0	18	1	US-08-361-479-32	Sequence 32, Appl
c1290	5	100.0	17	4	US-09-866-108A-8638	Sequence 8638, Ap	1363	5	100.0	18	1	US-08-361-479-33	Sequence 33, Appl
c1291	5	100.0	17	4	US-09-866-108A-8639	Sequence 8639, Ap	1364	5	100.0	18	1	US-08-464-136-38	Sequence 38, Appl
c1292	5	100.0	17	4	US-09-866-108A-8640	Sequence 8640, Ap	c1365	5	100.0	18	1	US-08-796-883-5	Sequence 5, Appl
c1293	5	100.0	17	4	US-09-866-108A-8641	Sequence 8641, Ap	1366	5	100.0	18	1	US-08-473-576-29	Sequence 29, Appl
c1294	5	100.0	17	4	US-09-866-108A-8642	Sequence 8642, Ap	c1367	5	100.0	18	1	US-08-473-576-31	Sequence 31, Appl
c1295	5	100.0	17	4	US-09-866-108A-8643	Sequence 8643, Ap	1368	5	100.0	18	1	US-08-473-576-32	Sequence 32, Appl
c1296	5	100.0	17	4	US-09-866-108A-8644	Sequence 8644, Ap	c1369	5	100.0	18	1	US-08-473-576-33	Sequence 33, Appl
c1297	5	100.0	17	4	US-09-866-108A-8645	Sequence 8645, Ap	1370	5	100.0	18	1	US-08-483-432-51	Sequence 51, Appl
c1298	5	100.0	17	4	US-09-866-108A-8646	Sequence 8646, Ap	c1371	5	100.0	18	1	US-08-345-861-16	Sequence 16, Appl
c1299	5	100.0	17	4	US-09-866-108A-8647	Sequence 8647, Ap	1372	5	100.0	18	1	US-08-440-787A-19	Sequence 19, Appl
c1300	5	100.0	17	4	US-09-866-108A-8648	Sequence 8648, Ap	1373	5	100.0	18	1	US-08-440-787A-40	Sequence 40, Appl
c1301	5	100.0	17	4	US-09-866-108A-8649	Sequence 8649, Ap	1374	5	100.0	18	1	US-08-753-054-20	Sequence 20, Appl
c1302	5	100.0	17	4	US-09-866-108A-8650	Sequence 8650, Ap	c1375	5	100.0	18	1	US-08-727-003A-40	Sequence 40, Appl
c1303	5	100.0	17	4	US-09-866-108A-8651	Sequence 8651, Ap	1376	5	100.0	18	1	US-08-761-131-3	Sequence 3, Appl
c1304	5	100.0	17	4	US-09-866-108A-8652	Sequence 8652, Ap	1377	5	100.0	18	1	US-08-758-306-505	Sequence 505, Appl
c1305	5	100.0	17	4	US-09-866-108A-8653	Sequence 8653, Ap	c1378	5	100.0	18	1	US-08-758-306-539	Sequence 539, Appl
c1306	5	100.0	17	4	US-09-866-108A-8654	Sequence 8654, Ap	1379	5	100.0	18	1	US-08-311-486C-1068	Sequence 1068, Ap
c1307	5	100.0	17	4	US-09-866-108A-8655	Sequence 8655, Ap	1380	5	100.0	18	1	US-08-311-486C-1078	Sequence 1078, Ap
c1308	5	100.0	17	4	US-09-866-108A-8656	Sequence 8656, Ap	1381	5	100.0	18	1	US-08-435-628-35	Sequence 35, Appl
c1309	5	100.0	17	4	US-09-866-108A-8657	Sequence 8657, Ap	c1382	5	100.0	18	1	US-08-661-757-12	Sequence 12, Appl
c1310	5	100.0	17	4	US-09-866-108A-8658	Sequence 8658, Ap	1383	5	100.0	18	1	US-08-468-580-27	Sequence 27, Appl
c1311	5	100.0	17	4	US-09-866-108A-8659	Sequence 8659, Ap	c1384	5	100.0	18	2	US-08-514-921-37	Sequence 37, Appl
c1312	5	100.0	17	4	US-09-866-108A-8660	Sequence 8660, Ap	1385	5	100.0	18	2	US-08-453-848-26	Sequence 26, Appl
c1313	5	100.0	17	4	US-09-866-108A-8661	Sequence 8661, Ap	c1386	5	100.0	18	2	US-08-843-718-29	Sequence 29, Appl
c1314	5	100.0	17	4	US-09-866-108A-8662	Sequence 8662, Ap	1387	5	100.0	18	2	US-08-843-718-31	Sequence 31, Appl
c1315	5	100.0	17	4	US-09-866-108A-8663	Sequence 8663, Ap	c1388	5	100.0	18	2	US-08-843-718-32	Sequence 32, Appl
c1316	5	100.0	17	4	US-09-866-108A-8664	Sequence 8664, Ap	1389	5	100.0	18	2	US-08-843-718-33	Sequence 33, Appl
c1317	5	100.0	17	4	US-09-866-108A-8665	Sequence 8665, Ap	c1390	5	100.0	18	2	US-08-676-279-19	Sequence 19, Appl
c1318	5	100.0	17	4	US-09-866-108A-8666	Sequence 8666, Ap	1391	5	100.0	18	2	US-08-349-131-38	Sequence 38, Appl
c1319	5	100.0	17	4	US-09-866-108A-8667	Sequence 8667, Ap	c1392	5	100.0	18	2	US-08-880-557-18	Sequence 18, Appl
c1320	5	100.0	17	4	US-09-866-108A-8668	Sequence 8668, Ap	1393	5	100.0	18	2	US-08-880-557-19	Sequence 19, Appl
c1321	5	100.0	17	4	US-09-866-108A-8669	Sequence 8669, Ap	c1394	5	100.0	18	2	US-08-585-684B-2638	Sequence 2638, Ap
c1322	5	100.0	17	4	US-09-866-108A-8670	Sequence 8670, Ap	1395	5	100.0	18	2	US-08-585-684B-2639	Sequence 2639, Ap
c1323	5	100.0	17	4	US-09-866-108A-8671	Sequence 8671, Ap	c1396	5	100.0	18	2	US-08-320-306-15	Sequence 15, Appl
c1324	5	100.0	17	4	US-09-866-108A-8672	Sequence 8672, Ap	1397	5	100.0	18	2	US-08-668-123-14	Sequence 14, Appl
c1325	5	100.0	17	4	US-09-866-108A-8673	Sequence 8673, Ap	c1398	5	100.0	18	2	US-08-873-479-53	Sequence 53, Appl
c1326	5	100.0	17	4	US-09-866-108A-8674	Sequence 8674, Ap	1399	5	100.0	18	2	US-08-479-105A-16	Sequence 16, Appl
c1327	5	100.0	17	4	US-09-866-108A-8675	Sequence 8675, Ap	c1400	5	100.0	18	2	US-08-634-350-21	Sequence 21, Appl
c1328	5	100.0	17	4	US-09-866-108A-8676	Sequence 8676, Ap	1401	5	100.0	18	2	US-08-774-104A-6	Sequence 6, Appl
c1329	5	100.0	17	4	US-09-866-108A-8677	Sequence 8677, Ap	c1402	5	100.0	18	2	US-08-488-209B-15	Sequence 15, Appl
c1330	5	100.0	17	4	US-09-866-108A-8678	Sequence 8678, Ap	1403	5	100.0	18	2	US-08-408-011-15	Sequence 15, Appl
c1331	5	100.0	17	4	US-09-866-108A-8679	Sequence 8679, Ap	c1404	5	100.0	18	2	US-08-974-565C-13	Sequence 13, Appl
c1332	5	100.0	17	4	US-09-866-108A-8680	Sequence 8680, Ap	1405	5	100.0	18	2	US-09-156-424-28	Sequence 28, Appl
c1333	5	100.0	17	4	US-09-866-108A-8681	Sequence 8681, Ap	c1406	5	100.0	18	2	US-09-205-922-38	Sequence 38, Appl
c1334	5	100.0	17	4	US-09-866-108A-8682	Sequence 8682, Ap	1407	5	100.0	18	2	US-08-718-538-18	Sequence 18, Appl
c1335	5	100.0	17	4	US-09-866-108A-8683	Sequence 8683, Ap	c1408	5	100.0	18	2	US-08-687-865A-5	Sequence 5, Appl
c1336	5	100.0	17	4	US-09-866-108A-8684	Sequence 8684, Ap	1409	5	100.0	18	2	US-08-928-692-35	Sequence 35, Appl
c1337	5	100.0	17	4	US-09-866-108A-8685	Sequence 8685, Ap	1410	5	100.0	18	2	US-09-205-204-19	Sequence 19, Appl
c1338	5	100.0	17	4	US-09-866-108A-8686	Sequence 8686, Ap	c1411	5	100.0	18	2	US-09-205-204-29	Sequence 29, Appl
c1339	5	100.0	17	4	US-09-866-108A-8687	Sequence 8687, Ap	1412	5	100.0	18	2	US-09-205-204-38	Sequence 38, Appl
c1340	5	100.0	17	4	US-09-866-108A-8688	Sequence 8688, Ap	c1413	5	100.0	18	2	US-09-212-771-15	Sequence 15, Appl
c1341	5	100.0	17	4	US-09-866-108A-8689	Sequence 8689, Ap	c1414	5	100.0	18	2	US-09-197-360-14	Sequence 14, Appl



```

1415 5 100.0 18 2 US-09-197-360-25 Sequence 25, Appl
1416 5 100.0 18 2 US-08-613-235-12 Sequence 12, Appl
1417 5 100.0 18 2 US-08-318-856A-84 Sequence 84, Appl
1418 5 100.0 18 2 US-08-318-856A-85 Sequence 85, Appl
1419 5 100.0 18 2 US-09-108-837-3 Sequence 3, Appl
1420 5 100.0 18 2 US-08-771-602D-24 Sequence 24, Appl
1421 5 100.0 18 2 US-08-531-864-5 Sequence 5, Appl
1422 5 100.0 18 2 US-09-205-860-66 Sequence 66, Appl
1423 5 100.0 18 2 US-09-200-141-35 Sequence 35, Appl
1424 5 100.0 18 2 US-09-213-768-17 Sequence 17, Appl
1425 5 100.0 18 2 US-09-213-768-18 Sequence 18, Appl
1426 5 100.0 18 2 US-09-213-768-26 Sequence 26, Appl
1427 5 100.0 18 2 US-08-373-636C-5 Sequence 5, Appl
1428 5 100.0 18 3 US-09-156-253-40 Sequence 40, Appl
1429 5 100.0 18 3 US-09-138-024-23 Sequence 23, Appl
1430 5 100.0 18 3 US-09-161-244-20 Sequence 20, Appl
1431 5 100.0 18 3 US-09-161-244-23 Sequence 23, Appl
1432 5 100.0 18 3 US-09-161-244-69 Sequence 69, Appl
1433 5 100.0 18 3 US-09-161-244-81 Sequence 81, Appl
1434 5 100.0 18 3 US-08-696-497B-7 Sequence 7, Appl
1435 5 100.0 18 3 US-09-106-038A-44 Sequence 44, Appl
1436 5 100.0 18 3 US-09-106-038A-58 Sequence 58, Appl
1437 5 100.0 18 3 US-09-205-921-45 Sequence 45, Appl
1438 5 100.0 18 3 US-09-255-893-10 Sequence 10, Appl
1439 5 100.0 18 3 US-09-255-911-8 Sequence 8, Appl
1440 5 100.0 18 3 US-09-255-911-37 Sequence 37, Appl
1441 5 100.0 18 3 US-09-255-888-12 Sequence 12, Appl
1442 5 100.0 18 3 US-09-255-888-24 Sequence 24, Appl
1443 5 100.0 18 3 US-09-289-376-29 Sequence 29, Appl
1444 5 100.0 18 3 US-09-289-376-46 Sequence 46, Appl
1445 5 100.0 18 3 US-09-357-072-21 Sequence 21, Appl
1446 5 100.0 18 3 US-08-875-540-3 Sequence 3, Appl
1447 5 100.0 18 3 US-08-471-039-329 Sequence 329, App
1448 5 100.0 18 3 US-09-358-381-45 Sequence 45, Appl
1449 5 100.0 18 3 US-08-811-177A-7 Sequence 7, Appl
1450 5 100.0 18 3 US-09-339-964-10 Sequence 10, Appl
1451 5 100.0 18 3 US-09-339-964-39 Sequence 39, Appl
1452 5 100.0 18 3 US-08-544-381B-55 Sequence 55, Appl
1453 5 100.0 18 3 US-08-470-297B-38 Sequence 38, Appl
1454 5 100.0 18 3 US-09-014-065-5 Sequence 5, Appl
1455 5 100.0 18 3 US-09-255-912-38 Sequence 38, Appl
1456 5 100.0 18 3 US-09-344-520-13 Sequence 13, Appl
1457 5 100.0 18 3 US-09-344-520-15 Sequence 15, Appl
1458 5 100.0 18 3 US-09-344-520-16 Sequence 16, Appl
1459 5 100.0 18 3 US-09-344-520-22 Sequence 22, Appl
1460 5 100.0 18 3 US-09-256-492-9 Sequence 9, Appl
1461 5 100.0 18 3 US-09-256-465-16 Sequence 16, Appl
1462 5 100.0 18 3 US-08-180-470-43 Sequence 43, Appl
1463 5 100.0 18 3 US-08-180-470-44 Sequence 44, Appl
1464 5 100.0 18 3 US-08-180-470-45 Sequence 45, Appl
1465 5 100.0 18 3 US-08-180-470-46 Sequence 46, Appl
1466 5 100.0 18 3 US-08-485-942A-57 Sequence 57, Appl
1467 5 100.0 18 3 US-08-676-818-20 Sequence 20, Appl
1468 5 100.0 18 3 US-08-602-506A-5 Sequence 5, Appl
1469 5 100.0 18 3 US-08-850-613A-5 Sequence 5, Appl
1470 5 100.0 18 3 US-09-189-583-18 Sequence 18, Appl
1471 5 100.0 18 3 US-09-189-583-19 Sequence 19, Appl
1472 5 100.0 18 3 US-09-339-775-30 Sequence 30, Appl
1473 5 100.0 18 3 US-09-339-775-43 Sequence 43, Appl
1474 5 100.0 18 3 US-08-867-381A-23 Sequence 23, Appl
1475 5 100.0 18 3 US-08-462-778-3 Sequence 3, Appl
1476 5 100.0 18 3 US-09-143-212-66 Sequence 66, Appl
1477 5 100.0 18 3 US-09-143-212-75 Sequence 75, Appl
1478 5 100.0 18 3 US-09-043-085-12 Sequence 12, Appl
1479 5 100.0 18 3 US-09-043-085-36 Sequence 36, Appl
1480 5 100.0 18 3 US-08-559-205-14 Sequence 14, Appl
1481 5 100.0 18 3 US-09-009-913-238 Sequence 238, App
1482 5 100.0 18 3 US-08-467-023-12 Sequence 12, Appl
1483 5 100.0 18 3 US-08-467-023-17 Sequence 17, Appl
1484 5 100.0 18 3 US-08-675-566-78 Sequence 78, Appl
1485 5 100.0 18 3 US-08-846-020A-30 Sequence 30, Appl
1486 5 100.0 18 3 US-08-912-272-101 Sequence 101, App
1487 5 100.0 18 3 US-09-290-449-7 Sequence 7, Appl

```

## RESULT 1

```

US-08-630-019A-45
; Sequence 45, Application US/08630019A
; Patent No. 6015710
; GENERAL INFORMATION:
; APPLICANT: Shay, Jerry W.
; APPLICANT: Wright, Woodring E.
; APPLICANT: Piatyszek, Mieczyslaw A.
; APPLICANT: Corey, David
; APPLICANT: No. 6015710con, James C.
; TITLE OF INVENTION: Modulation of Mammalian Telomerase by
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/630,019A
; FILING DATE: 09-JUN-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Storella, John R.
; REGISTRATION NUMBER: 32,944
; REFERENCE/DOCKET NUMBER: 015389-001600US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-630-019A-45

```

```

Query Match 100.0%; Score 5; DB 3; Length 5;
Best Local Similarity 100.0%; Pred.No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 CCAAT 5

Db 1 CCAAT 5

## RESULT 2



```
US-08-623-428D-59
; Sequence 59, Application US/08623428D
; Patent No. 6312890
; GENERAL INFORMATION:
; APPLICANT: W. MARSTON LINEHAN, MICHAEL
; LERMAN, FARIDA LATIF AND BERTON
; ZBAR
; TITLE OF INVENTION: PARTIAL INTRON SEQUENCE
; OF VHL DISEASE GENE AND ITS USE IN DIAGNOSIS
; OF DISEASE CARRIERS
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: MICROSOFT WORD 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/623,428D
; FILING DATE: 05-Sep-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/623,428
; FILING DATE: MARCH 28, 1996
; APPLICATION NUMBER: 08/061,889
; FILING DATE: May 14, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kathryn M. Brown
; REGISTRATION NUMBER: 14,556
; REFERENCE/DOCKET NUMBER: 2026-4078US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 59
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 59
US-08-623-428D-59
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCAAT 5
Db 1 CCAAT 5
RESULT 3
US-09-511-625B-70
; Sequence 70, Application US/09511625B
; Patent No. 6368828
; GENERAL INFORMATION:
; APPLICANT: LaRoche, William J.
; APPLICANT: Patel, Bhavrin
; APPLICANT: Pierce, Jacalyn H.
; TITLE OF INVENTION: ATTENUATED AND DOMINANT NEGATIVE VARIANT
; TITLE OF INVENTION: CDNAS OF STAT6; STAT6B AND STAT6C
; FILE REFERENCE: 14014.0300u1
; CURRENT APPLICATION NUMBER: US/09/511,625B
; CURRENT FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: PCI/US98/17821
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/070,397
US-08-623-428D-59
; PRIOR FILING DATE: 1998-01-05
; PRIOR APPLICATION NUMBER: 60/056,075
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 5
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of artificial sequence:/No. 6368828e -
; OTHER INFORMATION: synthetic construct
US-09-511-625B-70
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCAAT 5
Db 1 CCAAT 5
RESULT 4
US-09-305-839-43
; Sequence 43, Application US/09305839
; Patent No. 6514935
; GENERAL INFORMATION:
; APPLICANT: Lee, Mu-En
; APPLICANT: Yet, Shaw-Fang
; TITLE OF INVENTION: Methods of Treating Hypertension
; FILE REFERENCE: 21508-064
; CURRENT APPLICATION NUMBER: US/09/305,839
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/818,655
; PRIOR FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
; LENGTH: 5
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ccatt box
US-09-305-839-43
Query Match 100.0%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 1e+08;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCAAT 5
Db 1 CCAAT 5
RESULT 5
US-09-924-346-4
; Sequence 4, Application US/09924346
; Patent No. 6555674
; GENERAL INFORMATION:
; APPLICANT: Jens Tornoe
; TITLE OF INVENTION: The Jet Promoter
; FILE REFERENCE: 19313-005
; CURRENT APPLICATION NUMBER: US/09/924,346
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/224,087
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 5
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Chemically  
; OTHER INFORMATION: Synthesized  
US-09-924-346-4

Query Match 100.0%; Score 5; DB 4; Length 5;  
Best Local Similarity 100.0%; Pred. No. 1e+08; 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0; Mismatches 0;

QY 1 CCAAT 5  
Db 1 CCAAT 5

RESULT 6  
US-08-593-345B-13/c  
; Sequence 13, Application US/08593345B  
; Patent No. 5851772  
; GENERAL INFORMATION:  
; APPLICANT: Mirzabekov, Andrei D  
; APPLICANT: Lybov, Yuriy P  
; APPLICANT: Shick, Valentina V  
; APPLICANT: Dubiley, Svetlana A  
; TITLE OF INVENTION: A Microchip Method for the Enrichment of  
; TITLE OF INVENTION: Specific DNA Sequences.  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CHERSKOV & FLAYNIK  
; STREET: 20 N. Wacker Drive  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: United States  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage  
; COMPUTER: Macintosh  
; OPERATING SYSTEM: Macintosh 7.1  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/593,345B  
; FILING DATE: 29-JAN-96  
; PRIOR APPLICATION DATA: No. 5851772e  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cherskov, Michael J.  
; REGISTRATION NUMBER: 33,664  
; REFERENCE/DOCKET NUMBER: ANU-IN-95-029+30  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (312) 621-1330  
; TELEFAX: (312) 621-0088  
; INFORMATION FOR SEQ ID NO: 13:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 bases  
; TYPE: nucleic acid  
; STRANDEDNESS: No. 5851772 Applicable  
; TOPOLOGY: linear  
; MOLECULE TYPE: Genomic DNA  
; FEATURE:  
; NAME/KEY: No. 5851772e  
; LOCATION: 1-8  
; IDENTIFICATION METHOD: Similarity with known sequences.  
; OTHER INFORMATION: Complementarity with primer of  
; OTHER INFORMATION: exons to a-thalassemia gens.

Query Match 100.0%; Score 5; DB 2; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.4e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
Db 6 CCAAT 2

RESULT 7  
US-07-882-838E-2  
; Sequence 2, Application US/07882838E  
; Patent No. 5616461  
; GENERAL INFORMATION:  
; APPLICANT: Priscilla A. Schaffer  
; APPLICANT: Christine E. Dabrowski Anaral  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF VIRUS INFECTIONS  
; NUMBER OF SEQUENCES: 49  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Woodcock Washburn  
; STREET: One Liberty Place  
; CITY: Philadelphia  
; STATE: Pennsylvania  
; COUNTRY: U.S.A.  
; ZIP: 19103

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; COMPUTER: IBM PS/2 Model 50Z or 55SX  
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)  
; SOFTWARE: WordPerfect (Version 5.1)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/882,838E  
; FILING DATE: May 14, 1992  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:

; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kathryn Leary  
; REGISTRATION NUMBER: 36,317  
; REFERENCE/DOCKET NUMBER: DFCI-0001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 568-3100  
; TELEFAX: (215) 568-3439  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-07-882-838E-2

Query Match 100.0%; Score 5; DB 1; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
Db 5 CCAAT 9

RESULT 8  
US-08-153-051B-10  
; Sequence 10, Application US/08153051B  
; Patent No. 5645986  
; GENERAL INFORMATION:  
; APPLICANT: Michael D. West  
; APPLICANT: Jerry W. Shay  
; APPLICANT: Woodring E. Wright  
; APPLICANT: Elizabeth Blackburn  
; APPLICANT: Nam Woo Kim  
; APPLICANT: Calvin B. Harley  
; APPLICANT: Scott L. Weinrich  
; APPLICANT: Catherine Strahl  
; APPLICANT: Michael J. McEachern  
; APPLICANT: Homayoun Vaziri  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF  
; TITLE OF INVENTION: CONDITIONS RELATED TO TELOMERE  
; TITLE OF INVENTION: LENGTH AND/OR TELOMERASE ACTIVITY  
; NUMBER OF SEQUENCES: 58

; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/153,051B  
; FILING DATE: No. 5645986ember 12, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/038,766  
; FILING DATE: March 24, 1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 204/195  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-153-051B-10

Query Match 100.0%; Score 5; DB 1; Length 9;  
Best Local Similarity 80.0%; Pred. No. 5.7e+07;  
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
Db 4 CCAAU 8

RESULT 9  
US-08-151-477A-10  
; Sequence 10, Application US/08151477A  
; Patent No. 5830644  
; GENERAL INFORMATION:  
; APPLICANT: Michael D. West  
; APPLICANT: Jerry W. Shay  
; APPLICANT: Woodring E. Wright  
; APPLICANT: Elizabeth Blackburn  
; APPLICANT: Nam Woo Kim  
; APPLICANT: Calvin B. Harley  
; APPLICANT: Scott L. Weinrich  
; APPLICANT: Catherine Strahl  
; APPLICANT: Homayoun Vaziri  
; APPLICANT: Michael J. McEachern  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF  
; TITLE OF INVENTION: CONDITIONS RELATED TO TELEOMERE  
; TITLE OF INVENTION: LENGTH AND/OR TELOMERASE ACTIVITY  
; NUMBER OF SEQUENCES: 58  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/151,477A  
; FILING DATE: No. 5830644ember 12, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/038,766  
; FILING DATE: March 24, 1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 202/189  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-151-477A-10

Query Match 100.0%; Score 5; DB 2; Length 9;  
Best Local Similarity 80.0%; Pred. No. 5.7e+07;  
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
Db 4 CCAAU 8

RESULT 10  
US-08-819-867-10  
; Sequence 10, Application US/08819867  
; Patent No. 6007989  
; GENERAL INFORMATION:  
; APPLICANT: Michael D. West  
; APPLICANT: Calvin B. Harley  
; APPLICANT: Scott L. Weinrich  
; APPLICANT: Catherine M. Strahl  
; APPLICANT: Michael J. McEachern  
; APPLICANT: Jerry Shay  
; APPLICANT: Woodring E. Wright  
; APPLICANT: Elizabeth H. Blackburn  
; APPLICANT: Nam Woo Kim  
; APPLICANT: Homayoun Vaziri  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF  
; TITLE OF INVENTION: CONDITIONS RELATED TO  
; TITLE OF INVENTION: TELOMERE LENGTH AND/OR  
; TITLE OF INVENTION: TELOMERASE ACTIVITY  
; NUMBER OF SEQUENCES: 80  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSEQ for Windows 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/819,867  
; FILING DATE: March 14, 1997

```
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA: 08/153,051
/ FILING DATE: No. 6007989ember 12, 1993
/ APPLICATION NUMBER:
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Chambers, Daniel M.
/ REGISTRATION NUMBER: 34,561
/ REFERENCE/DOCKET NUMBER: 224/232
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (213) 489-1600
/ TELEFAX: (213) 955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 10:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 9 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/
US-08-819-867-10
Query Match 100.0%; Score 5; DB 3; Length 9;
Best Local Similarity 80.0%; Pred. No. 5.7e+07;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
Db 4 CCAAT 8

RESULT 11
US-09-282-824A-1/c
/ Sequence 1, Application US/09282824A
/ Patent No. 6211162
/ GENERAL INFORMATION:
/ APPLICANT: Dale, Roderic M.K.
/ APPLICANT: Gatton, Steven L.
/ APPLICANT: Arrow, Amy
/ TITLE OF INVENTION: Pulmonary Delivery of
/ TITLE OF INVENTION: Protonated/Acidified Nucleic Acids
/ FILE REFERENCE: OLIG-001CIP
/ CURRENT APPLICATION NUMBER: US/09/282,824A
/ CURRENT FILING DATE: 1999-03-31
/ PRIOR APPLICATION NUMBER: 09/222,009
/ PRIOR FILING DATE: 1998-12-30
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 9
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: synthesized modified oligonucleotide
/
US-09-282-824A-1
Query Match 100.0%; Score 5; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
Db 9 CCAAT 5

RESULT 12
US-09-222-009-1/c
/ Sequence 1, Application US/09222009
/ Patent No. 6211349
/ GENERAL INFORMATION:
/ APPLICANT: Dale, Roderic M. K.
/ APPLICANT: Arrow, Amy
/ APPLICANT: Gatton, Steven L.
```

```
/ APPLICANT: Thompson, Terry
/ TITLE OF INVENTION: Protonated/Acidified Nucleic Acids and
/ TITLE OF INVENTION: Methods of Use
/ FILE REFERENCE: OLIG-1P
/ CURRENT APPLICATION NUMBER: US/09/222,009
/ CURRENT FILING DATE: 1998-12-30
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 1
/ LENGTH: 9
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthesized Oligonucleotide
/
US-09-222-009-1
Query Match 100.0%; Score 5; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
Db 9 CCAAT 5

RESULT 13
US-09-452-817-16/c
/ Sequence 16, Application US/09452817
/ Patent No. 6342374
/ GENERAL INFORMATION:
/ APPLICANT: Carmichael, David F
/ APPLICANT: Anderson, David C
/ APPLICANT: Stricklin, George P
/ APPLICANT: Welgus, Howard G
/ TITLE OF INVENTION: Human Collagenase Inhibitor, Recombinant Vector System
/ TITLE OF INVENTION: For Using Same And Recombinant-DNA Method For
/ TITLE OF INVENTION: Manufacture Of Same
/ FILE REFERENCE: Serial No. 6342374 09/452,817
/ CURRENT APPLICATION NUMBER: US/09/452,817
/ CURRENT FILING DATE: 2001-06-22
/ PRIOR APPLICATION NUMBER: 08/474,553
/ PRIOR FILING DATE: 1995-06-07
/ PRIOR APPLICATION NUMBER: 08/050,739
/ PRIOR FILING DATE: 1993-04-21
/ PRIOR APPLICATION NUMBER: 07/853,018
/ PRIOR FILING DATE: 1992-03-18
/ PRIOR APPLICATION NUMBER: 07/517,475
/ PRIOR FILING DATE: 1990-05-01
/ PRIOR APPLICATION NUMBER: 07/320,923
/ PRIOR FILING DATE: 1989-03-08
/ PRIOR APPLICATION NUMBER: 06/784,319
/ PRIOR FILING DATE: 1985-10-04
/ PRIOR APPLICATION NUMBER: 06/699,181
/ PRIOR FILING DATE: 1985-02-05
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 16
/ LENGTH: 9
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: linker
/
US-09-452-817-16
Query Match 100.0%; Score 5; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 5.7e+07;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5
Db 6 CCAAT 2
```

RESULT 14  
US-09-179-298-4/c  
; Sequence 4, Application US/09179298  
; Patent No. 6355421  
; GENERAL INFORMATION:  
; APPLICANT: Coull, James M.  
; APPLICANT: Gildea, Brian D.  
; APPLICANT: Hyldig-Nielsen, Jens J.  
; TITLE OF INVENTION: Methods, Kits and Compositions Pertaining To PNA  
; TITLE OF INVENTION: Molecular Beacons  
; FILE REFERENCE: BP9702US-CP1  
; CURRENT APPLICATION NUMBER: US/09/179,298  
; CURRENT FILING DATE: 1998-10-27  
; EARLIER APPLICATION NUMBER: 08/958,532  
; EARLIER FILING DATE: 1997-10-27  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)  
; OTHER INFORMATION: 5'-Fluorescein  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:SYNTHETIC PROBE  
; OTHER INFORMATION: OR TARGET  
US-09-179-298-4

Query Match 100.0%; Score 5; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
Db 9 CCAAT 5

RESULT 15  
US-09-179-298-5/c  
; Sequence 5, Application US/09179298  
; Patent No. 6355421  
; GENERAL INFORMATION:  
; APPLICANT: Coull, James M.  
; APPLICANT: Gildea, Brian D.  
; APPLICANT: Hyldig-Nielsen, Jens J.  
; TITLE OF INVENTION: Methods, Kits and Compositions Pertaining To PNA  
; TITLE OF INVENTION: Molecular Beacons  
; FILE REFERENCE: BP9702US-CP1  
; CURRENT APPLICATION NUMBER: US/09/179,298  
; CURRENT FILING DATE: 1998-10-27  
; EARLIER APPLICATION NUMBER: 08/958,532  
; EARLIER FILING DATE: 1997-10-27  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 9  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:SYNTHETIC PROBE  
; OTHER INFORMATION: OR TARGET  
US-09-179-298-5

Query Match 100.0%; Score 5; DB 4; Length 9;  
Best Local Similarity 100.0%; Pred. No. 5.7e+07;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCAAT 5  
Db 9 CCAAT 5

Search completed: September 1, 2004, 02:34:35  
Job time : 41.0833 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 49.7333 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098A-1\_COPY\_1023\_1030

Perfect score: 8

Sequence: 1 tctgcctt 8

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Issued Patents NA:\*

- 1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8	100.0	8	3	US-08-859-954-496
2	8	100.0	9	4	US-09-989-789-2179
3	8	100.0	9	4	US-09-989-789-2180
4	8	100.0	12	3	US-09-049-190-15
5	8	100.0	12	4	US-08-932-140C-15
6	8	100.0	14	3	US-08-985-162-1864
7	8	100.0	14	4	US-09-401-063-1864
8	8	100.0	15	4	US-08-584-040-8486
9	8	100.0	15	4	US-08-584-040-8498
10	8	100.0	15	4	US-09-371-772B-4140
11	8	100.0	15	4	US-09-371-772B-4152
12	8	100.0	16	4	US-09-371-772B-7046
13	8	100.0	16	4	US-09-371-772B-7047
14	8	100.0	16	4	US-09-479-005A-508
15	8	100.0	17	3	US-08-985-162-691
16	8	100.0	17	3	US-08-985-162-692
17	8	100.0	17	3	US-08-985-162-693
18	8	100.0	17	4	US-08-584-040-4047
19	8	100.0	17	4	US-08-584-040-4048
20	8	100.0	17	4	US-09-371-772B-1814
21	8	100.0	17	4	US-09-371-772B-1815
22	8	100.0	17	4	US-09-371-772B-6493
23	8	100.0	17	4	US-09-371-772B-6494
24	8	100.0	17	4	US-09-371-772B-6495
25	8	100.0	17	4	US-09-401-063-691
26	8	100.0	17	4	US-09-401-063-692
27	8	100.0	17	4	US-09-401-063-693

Sequence 1195, Ap	17	4	US-09-866-108A-1195	8	100.0	C 28
Sequence 1196, Ap	17	4	US-09-866-108A-1196	8	100.0	C 29
Sequence 1197, Ap	17	4	US-09-866-108A-1197	8	100.0	C 30
Sequence 1198, Ap	17	4	US-09-866-108A-1198	8	100.0	C 31
Sequence 1199, Ap	17	4	US-09-866-108A-1199	8	100.0	C 32
Sequence 1200, Ap	17	4	US-09-866-108A-1200	8	100.0	C 33
Sequence 1201, Ap	17	4	US-09-866-108A-1201	8	100.0	C 34
Sequence 1202, Ap	17	4	US-09-866-108A-1202	8	100.0	C 35
Sequence 1203, Ap	17	4	US-09-866-108A-1203	8	100.0	C 36
Sequence 1204, Ap	17	4	US-09-866-108A-1204	8	100.0	C 37
Sequence 8, Appl	18	1	US-08-312-312A-8	8	100.0	C 38
Sequence 16, Appl	18	1	US-08-358-171-16	8	100.0	C 39
Sequence 12, Appl	18	1	US-08-647-584-12	8	100.0	C 40
Sequence 16, Appl	18	3	US-09-090-947-16	8	100.0	C 41
Sequence 57, Appl	18	4	US-09-564-805-57	8	100.0	C 42
Sequence 4723, Ap	18	4	US-08-584-040-4475	8	100.0	C 43
Sequence 4723, Ap	18	4	US-09-422-978-4723	8	100.0	C 44
Sequence 8463, Ap	18	4	US-09-422-978-8463	8	100.0	C 45
Sequence 9350, Ap	18	4	US-09-422-978-9350	8	100.0	C 46
Sequence 9634, Ap	18	4	US-09-422-978-9634	8	100.0	C 47
Sequence 2188, Ap	18	4	US-09-371-772B-2188	8	100.0	C 48
Sequence 82, Appl	18	4	US-09-548-797B-82	8	100.0	C 49
Sequence 20, Appl	19	2	US-08-773-251-20	8	100.0	C 50
Sequence 19, Appl	19	3	US-08-750-064-19	8	100.0	C 51
Sequence 18, Appl	19	3	US-09-268-140-18	8	100.0	C 52
Sequence 8, Appl	19	4	US-09-531-000-8	8	100.0	C 53
Sequence 4232, Ap	19	4	US-09-422-978-4232	8	100.0	C 54
Sequence 6314, Ap	19	4	US-09-422-978-6314	8	100.0	C 55
Sequence 7170, Ap	19	4	US-09-422-978-7170	8	100.0	C 56
Sequence 67, Appl	19	4	US-09-548-797B-67	8	100.0	C 57
Sequence 23, Appl	20	1	US-07-872-678A-23	8	100.0	C 58
Sequence 368, App	20	1	US-08-222-177A-368	8	100.0	C 59
Sequence 9, Appl	20	1	US-08-480-784-9	8	100.0	C 60
Sequence 9, Appl	20	1	US-08-483-553-9	8	100.0	C 61
Sequence 9, Appl	20	1	US-08-487-002-9	8	100.0	C 62
Sequence 9, Appl	20	1	US-08-469-802B-30	8	100.0	C 63
Sequence 9, Appl	20	1	US-08-483-554B-9	8	100.0	C 64
Sequence 9, Appl	20	1	US-08-488-011B-9	8	100.0	C 65
Sequence 16, Appl	20	1	US-08-546-130A-16	8	100.0	C 66
Sequence 48, Appl	20	2	US-08-267-803B-48	8	100.0	C 67
Sequence 21, Appl	20	2	US-08-481-793-21	8	100.0	C 68
Sequence 237, App	20	2	US-08-117-952-237	8	100.0	C 69
Sequence 34, Appl	20	2	US-08-468-352-34	8	100.0	C 70
Sequence 24, Appl	20	2	US-08-680-395-24	8	100.0	C 71
Sequence 21, Appl	20	2	US-08-354-326-21	8	100.0	C 72
Sequence 36, Appl	20	2	US-08-904-901-36	8	100.0	C 73
Sequence 46, Appl	20	2	US-08-904-901-46	8	100.0	C 74
Sequence 25, Appl	20	3	US-09-357-073-25	8	100.0	C 75
Sequence 36, Appl	20	3	US-09-249-730-36	8	100.0	C 76
Sequence 46, Appl	20	3	US-09-249-730-46	8	100.0	C 77
Sequence 9, Appl	20	3	US-08-850-727-9	8	100.0	C 78
Sequence 34, Appl	20	3	US-09-359-756-34	8	100.0	C 79
Sequence 28, Appl	20	3	US-09-428-219-28	8	100.0	C 80
Sequence 50, Appl	20	3	US-09-488-671-50	8	100.0	C 81
Sequence 117, App	20	3	US-09-488-671-117	8	100.0	C 82
Sequence 27, Appl	20	3	US-09-066-641-27	8	100.0	C 83
Sequence 82, Appl	20	4	US-09-484-634-82	8	100.0	C 84
Sequence 11, Appl	20	4	US-09-844-634-11	8	100.0	C 85
Sequence 9, Appl	20	4	US-09-328-750A-9	8	100.0	C 86
Sequence 82, Appl	20	4	US-09-222-938A-82	8	100.0	C 87
Sequence 83, Appl	20	4	US-09-853-768-83	8	100.0	C 88
Sequence 13, Appl	20	4	US-09-920-673-13	8	100.0	C 89
Sequence 45, Appl	20	4	US-09-657-346A-45	8	100.0	C 90
Sequence 118, App	20	4	US-09-668-313A-118	8	100.0	C 91
Sequence 119, App	20	4	US-09-668-313A-119	8	100.0	C 92
Sequence 9518, Ap	20	4	US-09-422-978-9518	8	100.0	C 93
Sequence 5512, Ap	20	4	US-09-198-452A-5512	8	100.0	C 94
Sequence 6503, Ap	20	4	US-09-198-452A-6503	8	100.0	C 95
Sequence 36, Appl	20	4	US-09-249-247-36	8	100.0	C 96
Sequence 46, Appl	20	4	US-09-249-247-46	8	100.0	C 97
Sequence 90, Appl	20	4	US-09-526-193A-90	8	100.0	C 98
Sequence 21, Appl	20	5	PCT-US95-07068-21	8	100.0	C 99
Sequence 9, Appl	20	5	PCT-US95-10202-9	8	100.0	C 100

c 101	8	100.0	20	5	PCT-US95-10203-9	Sequence 9, Appli	174	8	100.0	26	3	US-09-243-335-22	Sequence 22, Appli
c 102	8	100.0	20	5	PCT-US95-10220-9	Sequence 9, Appli	c 175	8	100.0	27	1	US-08-758-306-314	Sequence 314, App
c 103	8	100.0	20	6	5187076-12	Patent No. 5187076	c 176	8	100.0	27	1	US-08-758-306-1160	Sequence 1160, Ap
c 104	8	100.0	21	1	US-08-091-569-16	Sequence 16, Appli	c 177	8	100.0	27	2	US-08-758-306-1160	Sequence 17, Appl
c 105	8	100.0	21	1	US-08-252-626A-5	Sequence 5, Appli	c 178	8	100.0	27	3	US-08-985-162-1111	Sequence 1111, Ap
c 106	8	100.0	21	1	US-08-203-676-16	Sequence 16, Appli	c 179	8	100.0	27	3	US-08-985-162-1111	Sequence 1514, Ap
c 107	8	100.0	21	2	US-08-117-953-141	Sequence 141, App	c 180	8	100.0	27	3	US-08-985-162-1514	Sequence 1516, Ap
c 108	8	100.0	21	2	US-08-117-953-505	Sequence 505, App	c 181	8	100.0	27	3	US-08-985-162-1516	Sequence 17, Appl
c 109	8	100.0	21	2	US-08-822-238-16	Sequence 16, Appli	c 182	8	100.0	27	3	US-08-985-162-1516	Sequence 1438, Ap
c 110	8	100.0	21	3	US-08-660-645A-31	Sequence 31, Appli	c 183	8	100.0	27	4	US-08-584-040-1438	Sequence 3388, Ap
c 111	8	100.0	21	3	US-09-298-718-31	Sequence 31, Appli	c 184	8	100.0	27	4	US-08-584-040-3643	Sequence 3643, Ap
c 112	8	100.0	21	3	US-09-258-373-16	Sequence 16, Appli	c 185	8	100.0	27	4	US-08-679-645-917	Sequence 917, App
c 113	8	100.0	21	3	US-09-546-969-31	Sequence 31, Appli	c 186	8	100.0	27	4	US-09-401-063-1111	Sequence 1111, Ap
c 114	8	100.0	21	3	US-08-943-731-368	Sequence 368, App	c 187	8	100.0	27	4	US-09-401-063-1514	Sequence 1514, Ap
c 115	8	100.0	21	3	US-08-943-731-496	Sequence 496, App	c 188	8	100.0	27	4	US-09-401-063-1514	Sequence 1516, Ap
c 116	8	100.0	21	3	US-08-980-832-10	Sequence 10, Appli	c 189	8	100.0	28	2	US-08-378-617A-3	Sequence 3, Appli
c 117	8	100.0	21	4	US-09-422-978-10729	Sequence 10729, A	c 190	8	100.0	28	2	US-08-482-286A-7	Sequence 7, Appli
c 118	8	100.0	21	4	US-09-547-267-31	Sequence 31, Appli	c 191	8	100.0	28	2	US-08-859-998-1094	Sequence 1094, Ap
c 119	8	100.0	21	4	US-09-920-923B-10	Sequence 10, Appli	c 192	8	100.0	28	4	US-09-117-860-48	Sequence 48, Appl
c 120	8	100.0	22	2	US-08-504-459-17	Sequence 17, Appli	c 193	8	100.0	28	4	US-09-225-928-1094	Sequence 1094, Ap
c 121	8	100.0	22	3	US-08-564-496C-21	Sequence 21, Appli	c 194	8	100.0	28	4	US-09-225-928-1094	Sequence 1094, Ap
c 122	8	100.0	22	4	US-09-207-388-100	Sequence 100, App	c 195	8	100.0	28	4	US-09-225-928-1094	Sequence 1094, Ap
c 123	8	100.0	22	4	US-09-506-859-21	Sequence 21, Appli	c 196	8	100.0	28	4	US-09-225-928-1094	Sequence 1094, Ap
c 124	8	100.0	22	5	PCT-US95-15428-21	Sequence 21, Appli	c 197	8	100.0	29	2	US-08-930-274-24	Sequence 24, Appl
c 125	8	100.0	23	1	US-08-323-910-3	Sequence 3, Appli	c 198	8	100.0	29	2	US-08-930-274-24	Sequence 718, App
c 126	8	100.0	23	3	US-09-037-118-4	Sequence 4, Appli	c 199	8	100.0	30	1	US-08-451-472-37	Sequence 37, Appl
c 127	8	100.0	23	3	US-08-864-357F-14	Sequence 14, Appli	c 200	8	100.0	30	1	US-08-451-472-37	Sequence 37, Appl
c 128	8	100.0	23	4	US-09-372-668-5	Sequence 5, Appli	c 201	8	100.0	30	2	US-08-700-186-5	Sequence 5, Appli
c 129	8	100.0	23	4	US-09-535-008-28	Sequence 28, Appli	c 202	8	100.0	30	3	US-08-914-981-5	Sequence 5, Appli
c 130	8	100.0	23	4	US-09-907-794A-160	Sequence 160, App	c 203	8	100.0	30	3	US-09-541-762-5	Sequence 5, Appli
c 131	8	100.0	23	4	US-09-866-028-38	Sequence 38, Appli	c 204	8	100.0	30	4	US-09-198-603C-20	Sequence 20, Appl
c 132	8	100.0	23	4	US-09-905-125A-160	Sequence 160, App	c 205	8	100.0	30	4	US-09-581-070-13	Sequence 13, Appl
c 133	8	100.0	23	4	US-09-697-377-5	Sequence 5, Appli	c 206	8	100.0	31	1	US-08-214-023-5	Sequence 5, Appli
c 134	8	100.0	23	4	US-09-696-868-5	Sequence 5, Appli	c 207	8	100.0	31	1	US-08-121-053-5	Sequence 5, Appli
c 135	8	100.0	23	4	US-09-697-341-5	Sequence 5, Appli	c 208	8	100.0	31	1	US-08-455-063-5	Sequence 5, Appli
c 136	8	100.0	23	4	US-09-902-775A-160	Sequence 160, App	c 209	8	100.0	31	2	US-09-075-395-3	Sequence 3, Appli
c 137	8	100.0	24	1	US-08-423-383-38	Sequence 38, Appli	c 210	8	100.0	31	4	US-09-545-686-34	Sequence 34, Appl
c 138	8	100.0	24	2	US-08-437-353A-38	Sequence 38, Appli	c 211	8	100.0	31	4	US-09-807-897-19	Sequence 19, Appl
c 139	8	100.0	24	2	US-08-468-352-36	Sequence 36, Appli	c 212	8	100.0	31	5	PCT-US93-00108-6	Sequence 6, Appli
c 140	8	100.0	24	3	US-08-973-068-42	Sequence 42, Appli	c 213	8	100.0	32	1	US-08-449-045C-17	Sequence 17, Appl
c 141	8	100.0	24	3	US-08-949-153-20	Sequence 20, Appli	c 214	8	100.0	32	2	US-08-435-605A-29	Sequence 29, Appl
c 142	8	100.0	24	3	US-09-347-114A-1	Sequence 1, Appli	c 215	8	100.0	32	2	US-08-876-546A-24	Sequence 24, Appl
c 143	8	100.0	24	3	US-09-347-114A-25	Sequence 25, Appli	c 216	8	100.0	32	3	US-09-412-252-24	Sequence 24, Appl
c 144	8	100.0	24	4	US-09-123-485-4	Sequence 4, Appli	c 217	8	100.0	32	4	US-09-037-983C-10	Sequence 10, Appl
c 145	8	100.0	24	4	US-09-819-964-20	Sequence 20, Appli	c 218	8	100.0	34	1	US-08-449-045C-18	Sequence 18, Appl
c 146	8	100.0	24	4	US-09-498-625-3	Sequence 3, Appli	c 219	8	100.0	34	2	US-08-435-605A-30	Sequence 30, Appl
c 147	8	100.0	25	1	US-08-629-933-8	Sequence 8, Appli	c 220	8	100.0	34	4	US-09-302-620B-6	Sequence 6, Appli
c 148	8	100.0	25	1	US-08-759-873-8	Sequence 8, Appli	c 221	8	100.0	34	4	US-09-911-781-30	Sequence 30, Appl
c 149	8	100.0	25	2	US-08-687-080-143	Sequence 143, App	c 222	8	100.0	35	1	US-08-785-448-8	Sequence 8, Appli
c 150	8	100.0	25	3	US-08-949-153-18	Sequence 18, Appli	c 223	8	100.0	35	2	US-08-925-927-8	Sequence 8, Appli
c 151	8	100.0	25	4	US-09-819-964-18	Sequence 18, Appli	c 224	8	100.0	35	2	US-08-875-154-10	Sequence 10, Appl
c 152	8	100.0	25	4	US-09-422-576D-20	Sequence 20, Appli	c 225	8	100.0	35	3	US-09-120-576-8	Sequence 8, Appli
c 153	8	100.0	25	4	US-09-538-709-482	Sequence 482, App	c 226	8	100.0	36	2	US-08-585-684B-2159	Sequence 2159, Ap
c 154	8	100.0	25	4	US-09-854-140-4	Sequence 4, Appli	c 227	8	100.0	36	3	US-09-038-073-2159	Sequence 46, Appl
c 155	8	100.0	25	4	US-09-866-108A-4124	Sequence 4124, Ap	c 228	8	100.0	36	4	US-09-371-772B-14110	Sequence 14110, A
c 156	8	100.0	25	4	US-09-866-108A-4125	Sequence 4125, Ap	c 229	8	100.0	36	4	US-09-807-897-21	Sequence 21, Appl
c 157	8	100.0	25	4	US-09-866-108A-4126	Sequence 4126, Ap	c 230	8	100.0	36	4	US-09-807-897-21	Sequence 21, Appl
c 158	8	100.0	25	4	US-09-866-108A-4127	Sequence 4127, Ap	c 231	8	100.0	36	5	PCT-US94-04174-24	Sequence 24, Appl
c 159	8	100.0	25	4	US-09-866-108A-4128	Sequence 4128, Ap	c 232	8	100.0	37	4	US-08-164-487A-22	Sequence 22, Appl
c 160	8	100.0	25	4	US-09-866-108A-4129	Sequence 4129, Ap	c 233	8	100.0	38	4	US-09-371-772B-8535	Sequence 8535, Ap
c 161	8	100.0	25	4	US-09-866-108A-4130	Sequence 4130, Ap	c 234	8	100.0	38	4	US-09-371-772B-8957	Sequence 8957, Ap
c 162	8	100.0	25	4	US-09-866-108A-4131	Sequence 4131, Ap	c 235	8	100.0	38	4	US-09-371-772B-9212	Sequence 9212, Ap
c 163	8	100.0	25	4	US-09-866-108A-4132	Sequence 4132, Ap	c 236	8	100.0	38	5	PCT-US93-08258-12	Sequence 12, Appl
c 164	8	100.0	25	4	US-09-866-108A-4133	Sequence 4133, Ap	c 237	8	100.0	39	3	US-09-073-684-9	Sequence 9, Appli
c 165	8	100.0	25	4	US-09-866-108A-4134	Sequence 4134, Ap	c 238	8	100.0	39	3	US-09-188-556-17	Sequence 17, Appl
c 166	8	100.0	25	4	US-09-866-108A-4135	Sequence 4135, Ap	c 239	8	100.0	39	3	US-09-198-955A-23	Sequence 23, Appl
c 167	8	100.0	25	4	US-09-866-108A-4136	Sequence 4136, Ap	c 240	8	100.0	39	3	US-09-395-858A-9	Sequence 9, Appli
c 168	8	100.0	25	4	US-09-866-108A-4137	Sequence 4137, Ap	c 241	8	100.0	39	3	US-09-546-500-9	Sequence 9, Appli
c 169	8	100.0	25	4	US-09-866-108A-4138	Sequence 4138, Ap	c 242	8	100.0	39	3	US-09-546-500-9	Sequence 9, Appli
c 170	8	100.0	25	4	US-09-866-108A-4139	Sequence 4139, Ap	c 243	8	100.0	39	4	US-09-200-934-9	Sequence 9, Appli
c 171	8	100.0	25	4	US-09-866-108A-4140	Sequence 4140, Ap	c 244	8	100.0	39	4	US-09-694-531-23	Sequence 23, Appl
c 172	8	100.0	25	4	US-09-866-108A-4141	Sequence 4141, Ap	c 245	8	100.0	39	4	US-09-670-141-17	Sequence 17, Appl
c 173	8	100.0	26	3	US-08-974-899-22	Sequence 22, Appli	c 246	8	100.0	39	4	US-09-910-505B-25	Sequence 25, Appl

247	8	100.0	39	4	US-10-072-152-23	Sequence 23, Appl	320	8	100.0	71	4	US-09-854-662-21	Sequence 21, Appl
248	8	100.0	41	1	US-08-451-472-34	Sequence 34, Appl	c 321	8	100.0	79	3	US-09-258-797-92	Sequence 92, Appl
249	8	100.0	41	1	US-09-564-805-120	Sequence 120, App	322	8	100.0	80	3	US-09-025-7698-174	Sequence 174, App
250	8	100.0	42	1	US-08-270-985-12	Sequence 12, Appl	323	8	100.0	84	3	US-08-660-645A-44	Sequence 44, Appl
251	8	100.0	42	3	US-08-478-208-21	Sequence 21, Appl	324	8	100.0	84	3	US-09-298-718-44	Sequence 44, Appl
252	8	100.0	42	3	US-09-475-947A-325	Sequence 325, App	325	8	100.0	84	3	US-09-546-969-44	Sequence 44, Appl
253	8	100.0	43	3	US-08-078-271B-20	Sequence 20, Appl	326	8	100.0	84	3	US-08-980-832-23	Sequence 23, Appl
254	8	100.0	43	3	US-08-244-434-8	Sequence 8, Appl	327	8	100.0	84	3	US-09-547-267-44	Sequence 44, Appl
255	8	100.0	45	3	US-08-974-549A-487	Sequence 487, App	328	8	100.0	84	3	US-09-920-923B-23	Sequence 23, Appl
256	8	100.0	45	4	US-08-912-951-254	Sequence 254, App	c 329	8	100.0	88	3	US-08-660-645A-45	Sequence 45, Appl
257	8	100.0	45	4	US-09-402-181B-487	Sequence 487, App	c 330	8	100.0	88	3	US-09-298-718-45	Sequence 45, Appl
258	8	100.0	45	4	US-09-721-456-487	Sequence 487, App	c 331	8	100.0	88	3	US-09-546-969-45	Sequence 45, Appl
259	8	100.0	46	1	US-08-171-389-167	Sequence 167, App	c 332	8	100.0	88	3	US-08-980-832-24	Sequence 24, Appl
260	8	100.0	46	1	US-08-123-936-167	Sequence 167, App	c 333	8	100.0	88	4	US-09-547-267-45	Sequence 45, Appl
261	8	100.0	46	2	US-08-475-228A-167	Sequence 167, App	c 334	8	100.0	88	4	US-09-920-923B-24	Sequence 24, Appl
262	8	100.0	46	3	US-08-482-080A-167	Sequence 167, App	335	8	100.0	90	1	US-08-123-702-9	Sequence 9, Appl
263	8	100.0	46	4	US-09-354-947-167	Sequence 167, App	336	8	100.0	92	1	US-08-029-402-18	Sequence 18, Appl
264	8	100.0	46	5	PCT-US93-12388-167	Sequence 167, App	c 337	8	100.0	96	4	US-09-564-805-15	Sequence 15, Appl
265	8	100.0	47	1	US-08-091-569-14	Sequence 14, Appl	338	8	100.0	96	3	US-08-836-561-59	Sequence 59, Appl
266	8	100.0	47	1	US-08-203-676-14	Sequence 14, Appl	339	8	100.0	98	3	US-08-836-561-76	Sequence 76, Appl
267	8	100.0	47	2	US-08-822-238-14	Sequence 14, Appl	340	8	100.0	98	4	US-09-434-122-59	Sequence 59, Appl
268	8	100.0	47	4	US-09-641-638-710	Sequence 710, App	341	8	100.0	98	4	US-09-434-122-76	Sequence 76, Appl
269	8	100.0	47	4	US-08-641-638-719	Sequence 719, App	c 342	8	100.0	99	1	US-08-190-802A-26	Sequence 26, Appl
270	8	100.0	47	4	US-09-671-317-630	Sequence 630, App	c 343	8	100.0	99	3	US-08-477-348-26	Sequence 26, Appl
271	8	100.0	47	4	US-09-422-978-106	Sequence 827, App	c 344	8	100.0	99	4	US-08-473-089-26	Sequence 26, Appl
272	8	100.0	47	4	US-09-422-978-106	Sequence 106, App	c 345	8	100.0	99	4	US-08-487-072A-26	Sequence 26, Appl
273	8	100.0	47	4	US-09-422-978-1073	Sequence 1073, Ap	346	8	100.0	99	4	US-09-621-976-13006	Sequence 13006, A
274	8	100.0	47	4	US-09-422-978-2411	Sequence 2411, Ap	347	8	100.0	100	1	US-08-145-705A-3	Sequence 3, Appl
275	8	100.0	47	4	US-09-422-978-2817	Sequence 2817, Ap	348	8	100.0	100	1	US-08-145-705A-4	Sequence 4, Appl
276	8	100.0	47	4	US-09-422-978-3133	Sequence 3133, Ap	349	8	100.0	100	1	US-08-029-402-4	Sequence 4, Appl
277	8	100.0	47	4	US-09-422-978-3638	Sequence 3638, Ap	350	8	100.0	100	4	US-09-298-886-21	Sequence 21, Appl
278	8	100.0	47	4	US-09-422-978-3821	Sequence 3821, Ap	351	8	100.0	100	4	US-08-164-487A-21	Sequence 21, Appl
279	8	100.0	48	1	US-08-082-849B-27	Sequence 27, Appl	352	8	100.0	100	4	US-09-999-672-21	Sequence 6, Appl
280	8	100.0	48	4	US-09-367-206-32	Sequence 32, Appl	353	8	100.0	101	1	US-08-029-402-6	Sequence 8, Appl
281	8	100.0	48	5	PCT-US94-01624-27	Sequence 27, Appl	354	8	100.0	102	1	US-08-029-402-8	Sequence 8, Appl
282	8	100.0	49	1	US-08-082-849B-29	Sequence 29, Appl	c 355	8	100.0	105	1	US-08-441-591-56	Sequence 56, Appl
283	8	100.0	49	3	US-08-602-145-8	Sequence 8, Appl	c 356	8	100.0	105	1	US-08-303-362A-56	Sequence 56, Appl
284	8	100.0	49	4	US-09-538-709-1138	Sequence 1138, Ap	c 357	8	100.0	108	4	US-09-626-003-1	Sequence 1, Appl
285	8	100.0	49	5	PCT-US94-01624-29	Sequence 29, Appl	c 358	8	100.0	108	4	US-09-621-976-11207	Sequence 11207, A
286	8	100.0	50	1	US-08-171-389-462	Sequence 462, App	c 359	8	100.0	115	4	US-08-956-171B-2663	Sequence 2663, Ap
287	8	100.0	50	2	US-08-123-936-462	Sequence 462, App	c 360	8	100.0	115	4	US-09-976-594-969	Sequence 969, App
288	8	100.0	50	2	US-08-475-228A-462	Sequence 462, App	361	8	100.0	116	1	US-09-451-472-65	Sequence 65, Appl
289	8	100.0	50	3	US-08-482-080A-462	Sequence 462, App	362	8	100.0	120	1	US-08-451-472-39	Sequence 39, Appl
290	8	100.0	50	4	US-09-354-947-462	Sequence 462, App	363	8	100.0	120	1	US-08-451-472-55	Sequence 55, Appl
291	8	100.0	50	5	PCT-US93-12388-462	Sequence 462, App	364	8	100.0	124	3	US-08-750-064-9	Sequence 9, Appl
292	8	100.0	51	4	US-08-956-171B-5161	Sequence 5161, Ap	c 365	8	100.0	127	3	US-09-437-457-4	Sequence 4, Appl
293	8	100.0	54	1	US-08-311-486C-1030	Sequence 1030, Ap	366	8	100.0	127	3	US-08-956-171B-2029	Sequence 2029, Ap
294	8	100.0	54	4	US-08-584-040-4429	Sequence 4429, Ap	367	8	100.0	132	1	US-08-105-483-207	Sequence 207, App
295	8	100.0	54	4	US-08-584-040-6166	Sequence 6166, Ap	368	8	100.0	132	1	US-08-105-483-208	Sequence 208, App
296	8	100.0	54	4	US-09-371-772B-9338	Sequence 9338, Ap	c 369	8	100.0	132	1	US-08-220-151-88	Sequence 88, Appl
297	8	100.0	54	4	US-09-371-772B-10137	Sequence 10137, A	370	8	100.0	132	1	US-08-220-151-89	Sequence 89, Appl
298	8	100.0	56	1	US-08-590-804-26	Sequence 26, Appl	c 371	8	100.0	132	1	US-08-413-118-88	Sequence 88, Appl
299	8	100.0	57	1	US-07-936-163-14	Sequence 14, Appl	372	8	100.0	132	1	US-08-413-118-89	Sequence 89, Appl
300	8	100.0	57	1	US-07-936-163-15	Sequence 15, Appl	c 373	8	100.0	132	1	US-08-224-657-64	Sequence 64, Appl
301	8	100.0	57	2	US-08-995-927-1	Sequence 1, Appl	c 374	8	100.0	132	1	US-08-224-657-65	Sequence 65, Appl
302	8	100.0	57	3	US-08-729-601A-54	Sequence 54, Appl	c 375	8	100.0	132	1	US-08-224-657-66	Sequence 66, Appl
303	8	100.0	57	3	US-08-729-601A-55	Sequence 55, Appl	c 376	8	100.0	132	1	US-08-709-209-207	Sequence 207, App
304	8	100.0	57	4	US-09-582-096-1	Sequence 1, Appl	c 377	8	100.0	132	1	US-08-709-209-208	Sequence 208, App
305	8	100.0	57	4	US-09-097-319A-34	Sequence 34, Appl	c 378	8	100.0	132	1	US-08-458-101-207	Sequence 207, App
306	8	100.0	57	4	US-09-097-319A-35	Sequence 35, Appl	c 379	8	100.0	132	2	US-08-458-101-208	Sequence 208, App
307	8	100.0	57	4	US-09-621-976-11414	Sequence 11414, A	380	8	100.0	132	2	US-08-184-009-62	Sequence 62, Appl
308	8	100.0	60	2	US-08-663-566A-43	Sequence 43, Appl	c 381	8	100.0	132	2	US-08-184-009-63	Sequence 63, Appl
309	8	100.0	60	2	US-08-023-610-43	Sequence 43, Appl	382	8	100.0	132	2	US-08-417-210A-62	Sequence 62, Appl
310	8	100.0	60	2	US-08-288-065A-43	Sequence 43, Appl	c 383	8	100.0	132	2	US-08-417-210A-63	Sequence 63, Appl
311	8	100.0	60	2	US-08-362-240A-43	Sequence 43, Appl	384	8	100.0	132	2	US-08-458-356-62	Sequence 62, Appl
312	8	100.0	60	4	US-09-402-266B-27	Sequence 27, Appl	c 385	8	100.0	132	2	US-08-458-356-63	Sequence 63, Appl
313	8	100.0	60	5	PCT-US95-10245-43	Sequence 43, Appl	c 386	8	100.0	132	3	US-08-473-446-88	Sequence 88, Appl
314	8	100.0	61	3	US-09-023-228B-137	Sequence 137, App	c 387	8	100.0	132	3	US-08-473-446-89	Sequence 89, Appl
315	8	100.0	61	4	US-09-163-025B-137	Sequence 137, App	c 388	8	100.0	132	3	US-08-460-736-62	Sequence 62, Appl
316	8	100.0	61	4	US-10-037-282-137	Sequence 137, App	c 389	8	100.0	132	3	US-08-460-736-63	Sequence 63, Appl
317	8	100.0	66	3	US-08-532-896-21	Sequence 21, Appl	390	8	100.0	132	4	US-09-354-138-64	Sequence 64, Appl
318	8	100.0	68	4	US-09-511-625B-18	Sequence 18, Appl	c 391	8	100.0	132	4	US-09-354-138-65	Sequence 65, Appl
319	8	100.0	71	3	US-09-364-902-21	Sequence 21, Appl	392	8	100.0	132	4	US-09-555-370-62	Sequence 62, Appl



C 393	8	100.0	132	4	US-09-535-370-63	Sequence 63, Appl	C 466	8	100.0	196	4	US-09-401-064-76	Sequence 76, Appl
C 394	8	100.0	132	4	US-09-136-159A-62	Sequence 62, Appl	C 467	8	100.0	197	1	US-08-832-883-60	Sequence 60, Appl
C 395	8	100.0	132	4	US-09-136-159A-63	Sequence 63, Appl	C 468	8	100.0	197	2	US-08-832-877-60	Sequence 60, Appl
C 396	8	100.0	136	3	US-09-060-756-528	Sequence 528, Appl	C 469	8	100.0	198	1	US-08-223-177A-42	Sequence 42, Appl
C 397	8	100.0	136	4	US-09-404-79A-331	Sequence 331, Appl	C 470	8	100.0	198	2	US-08-588-258B-18	Sequence 18, Appl
C 398	8	100.0	136	4	US-09-670-314-528	Sequence 528, Appl	C 471	8	100.0	198	3	US-08-460-505-18	Sequence 18, Appl
C 399	8	100.0	139	4	US-09-313-294A-3530	Sequence 3530, Appl	C 472	8	100.0	198	4	US-09-134-001C-2527	Sequence 2527, Appl
C 400	8	100.0	139	4	US-09-702-705-343	Sequence 343, Appl	C 473	8	100.0	198	4	US-09-252-991A-6743	Sequence 6743, Appl
C 401	8	100.0	139	4	US-09-736-457-343	Sequence 343, Appl	C 474	8	100.0	198	4	US-09-328-352-1129	Sequence 1129, Appl
C 402	8	100.0	139	4	US-09-614-124B-343	Sequence 343, Appl	C 475	8	100.0	198	4	US-09-621-976-10427	Sequence 10427, Appl
C 403	8	100.0	139	4	US-09-671-325-343	Sequence 343, Appl	C 476	8	100.0	198	5	PCT-US96-08295-18	Sequence 18, Appl
C 404	8	100.0	139	4	US-09-589-184-343	Sequence 343, Appl	C 477	8	100.0	200	4	US-09-904-198-3	Sequence 3, Appl
C 405	8	100.0	142	4	US-09-313-294A-589	Sequence 589, Appl	C 478	8	100.0	200	4	US-09-688-990-13	Sequence 13, Appl
C 406	8	100.0	150	1	US-08-188-228-25	Sequence 25, Appl	C 479	8	100.0	203	4	US-09-566-876-20	Sequence 20, Appl
C 407	8	100.0	150	1	US-08-332-643-25	Sequence 25, Appl	C 480	8	100.0	203	4	US-09-566-876-20	Sequence 20, Appl
C 408	8	100.0	150	1	US-08-332-638-25	Sequence 25, Appl	C 481	8	100.0	204	3	US-09-020-956-51	Sequence 51, Appl
C 409	8	100.0	152	4	US-09-280-116-260	Sequence 260, Appl	C 482	8	100.0	204	3	US-09-030-607-51	Sequence 51, Appl
C 410	8	100.0	152	4	US-09-621-976-7966	Sequence 7966, Appl	C 483	8	100.0	204	4	US-09-439-313-51	Sequence 51, Appl
C 411	8	100.0	153	3	US-09-461-697-454	Sequence 454, Appl	C 484	8	100.0	204	4	US-09-352-616A-51	Sequence 51, Appl
C 412	8	100.0	154	4	US-09-621-976-13506	Sequence 13506, Appl	C 485	8	100.0	204	4	US-09-232-149A-51	Sequence 51, Appl
C 413	8	100.0	159	2	US-08-454-557C-71	Sequence 71, Appl	C 486	8	100.0	204	4	US-09-016-434-274	Sequence 274, Appl
C 414	8	100.0	159	2	US-08-340-426D-71	Sequence 71, Appl	C 487	8	100.0	204	4	US-09-252-991A-9997	Sequence 9997, Appl
C 415	8	100.0	159	2	US-08-450-673C-71	Sequence 71, Appl	C 488	8	100.0	204	4	US-09-153-812-51	Sequence 51, Appl
C 416	8	100.0	159	3	US-08-824-800D-22	Sequence 22, Appl	C 489	8	100.0	204	4	US-09-636-215-51	Sequence 51, Appl
C 417	8	100.0	159	3	US-09-588-751-22	Sequence 22, Appl	C 490	8	100.0	204	4	US-09-685-166A-51	Sequence 51, Appl
C 418	8	100.0	159	5	PCT-US95-17111A-71	Sequence 71, Appl	C 491	8	100.0	204	4	US-09-115-453-51	Sequence 51, Appl
C 419	8	100.0	160	3	US-08-651-136C-75	Sequence 75, Appl	C 492	8	100.0	204	4	US-09-688-489-51	Sequence 51, Appl
C 420	8	100.0	160	4	US-09-229-911A-75	Sequence 75, Appl	C 493	8	100.0	207	1	US-08-700-575-41	Sequence 41, Appl
C 421	8	100.0	160	4	US-09-435-019-19	Sequence 19, Appl	C 494	8	100.0	207	4	US-09-328-352-2046	Sequence 2046, Appl
C 422	8	100.0	160	4	US-09-435-019-20	Sequence 20, Appl	C 495	8	100.0	211	4	US-09-702-705-20	Sequence 20, Appl
C 423	8	100.0	162	1	US-08-181-364-3	Sequence 3, Appl	C 496	8	100.0	211	4	US-09-736-457-20	Sequence 20, Appl
C 424	8	100.0	162	4	US-09-621-976-15620	Sequence 15620, Appl	C 497	8	100.0	211	4	US-09-963-137-29	Sequence 29, Appl
C 425	8	100.0	162	5	PCT-US93-01957-3	Sequence 3, Appl	C 498	8	100.0	211	4	US-09-614-124B-20	Sequence 20, Appl
C 426	8	100.0	165	1	US-08-442-542-9	Sequence 9, Appl	C 499	8	100.0	211	4	US-09-671-325-20	Sequence 20, Appl
C 427	8	100.0	165	3	US-08-765-469-9	Sequence 9, Appl	C 500	8	100.0	211	4	US-09-833-381-378	Sequence 378, Appl
C 428	8	100.0	165	4	US-08-956-171B-1382	Sequence 1382, Appl	C 501	8	100.0	211	4	US-09-589-184-20	Sequence 20, Appl
C 429	8	100.0	169	4	US-09-313-294A-6547	Sequence 6547, Appl	C 502	8	100.0	213	4	US-09-328-352-952	Sequence 952, Appl
C 430	8	100.0	170	4	US-09-724-916A-111	Sequence 111, Appl	C 503	8	100.0	213	4	US-09-328-352-3399	Sequence 3399, Appl
C 431	8	100.0	170	4	US-09-724-916A-112	Sequence 112, Appl	C 504	8	100.0	214	4	US-09-107-532A-1632	Sequence 1632, Appl
C 432	8	100.0	172	3	US-09-269-617-9	Sequence 9, Appl	C 505	8	100.0	214	4	US-09-313-294A-1931	Sequence 1931, Appl
C 433	8	100.0	172	4	US-08-956-171B-3151	Sequence 3151, Appl	C 506	8	100.0	215	2	US-08-691-814B-85	Sequence 85, Appl
C 434	8	100.0	172	4	US-08-956-171B-15386	Sequence 15386, Appl	C 507	8	100.0	216	3	US-09-461-697-452	Sequence 452, Appl
C 435	8	100.0	174	2	US-08-691-814B-98	Sequence 98, Appl	C 508	8	100.0	216	4	US-09-328-352-3484	Sequence 3484, Appl
C 436	8	100.0	176	4	US-09-313-294A-1210	Sequence 1210, Appl	C 509	8	100.0	216	4	US-09-107-532A-3304	Sequence 3304, Appl
C 437	8	100.0	177	4	US-09-313-294A-2681	Sequence 2681, Appl	C 510	8	100.0	216	4	US-09-134-000C-192	Sequence 192, Appl
C 438	8	100.0	177	4	US-09-313-294A-5168	Sequence 5168, Appl	C 511	8	100.0	218	4	US-09-023-655-409	Sequence 409, Appl
C 439	8	100.0	177	4	US-09-621-976-15079	Sequence 15079, Appl	C 512	8	100.0	219	4	US-09-016-434-258	Sequence 258, Appl
C 440	8	100.0	178	2	US-09-032-684-3	Sequence 3, Appl	C 513	8	100.0	219	4	US-09-328-352-2677	Sequence 2677, Appl
C 441	8	100.0	178	4	US-09-644-460-3	Sequence 3, Appl	C 514	8	100.0	219	4	US-09-543-681A-1805	Sequence 1805, Appl
C 442	8	100.0	181	3	US-09-833-381-434	Sequence 434, Appl	C 515	8	100.0	219	4	US-09-134-000C-3184	Sequence 3184, Appl
C 443	8	100.0	181	3	US-09-172-711-47	Sequence 47, Appl	C 516	8	100.0	220	4	US-09-540-236-1600	Sequence 1600, Appl
C 444	8	100.0	182	1	US-08-751-782-11	Sequence 11, Appl	C 517	8	100.0	221	4	US-09-313-294A-2870	Sequence 2870, Appl
C 445	8	100.0	182	2	US-08-925-171-11	Sequence 15, Appl	C 518	8	100.0	221	4	US-09-621-976-11520	Sequence 11520, Appl
C 446	8	100.0	182	3	US-08-973-068-32	Sequence 32, Appl	C 519	8	100.0	222	3	US-09-142-565-3	Sequence 3, Appl
C 447	8	100.0	183	4	US-09-323-872A-47	Sequence 47, Appl	C 520	8	100.0	222	4	US-09-702-705-1780	Sequence 1780, Appl
C 448	8	100.0	183	4	US-09-134-000C-1791	Sequence 1791, Appl	C 521	8	100.0	222	4	US-09-736-457-1780	Sequence 1780, Appl
C 449	8	100.0	184	4	US-09-621-976-10911	Sequence 10911, Appl	C 522	8	100.0	224	4	US-09-671-325-1780	Sequence 1780, Appl
C 450	8	100.0	186	4	US-09-540-236-15	Sequence 15, Appl	C 523	8	100.0	224	4	US-09-397-787-71	Sequence 71, Appl
C 451	8	100.0	187	4	US-09-833-381-326	Sequence 326, Appl	C 524	8	100.0	224	4	US-09-702-705-1072	Sequence 1072, Appl
C 452	8	100.0	189	3	US-08-905-223-253	Sequence 253, Appl	C 525	8	100.0	224	4	US-09-614-124B-1072	Sequence 1072, Appl
C 453	8	100.0	189	4	US-09-328-352-1239	Sequence 1239, Appl	C 526	8	100.0	224	4	US-09-671-325-1072	Sequence 1072, Appl
C 454	8	100.0	189	4	US-09-489-039A-6085	Sequence 6085, Appl	C 527	8	100.0	225	4	US-09-107-532A-3476	Sequence 3476, Appl
C 455	8	100.0	191	2	US-09-032-684-4	Sequence 4, Appl	C 528	8	100.0	225	4	US-09-489-039A-735	Sequence 735, Appl
C 456	8	100.0	191	4	US-09-644-460-4	Sequence 4, Appl	C 529	8	100.0	228	1	US-08-451-472-57	Sequence 57, Appl
C 457	8	100.0	194	4	US-09-702-705-1443	Sequence 1443, Appl	C 530	8	100.0	228	4	US-08-134-001C-1403	Sequence 1403, Appl
C 458	8	100.0	194	4	US-09-702-705-1531	Sequence 1531, Appl	C 531	8	100.0	231	1	US-08-036-555B-173	Sequence 173, Appl
C 459	8	100.0	194	4	US-09-736-457-1443	Sequence 1443, Appl	C 532	8	100.0	231	1	US-08-469-569-173	Sequence 173, Appl
C 460	8	100.0	194	4	US-09-736-457-1531	Sequence 1531, Appl	C 533	8	100.0	231	1	US-08-249-322A-173	Sequence 173, Appl
C 461	8	100.0	194	4	US-09-614-124B-1443	Sequence 1443, Appl	C 534	8	100.0	231	1	US-08-469-526A-173	Sequence 173, Appl
C 462	8	100.0	194	4	US-09-614-124B-1531	Sequence 1531, Appl	C 535	8	100.0	231	2	US-08-734-591A-173	Sequence 173, Appl
C 463	8	100.0	194	4	US-09-671-325-1443	Sequence 1443, Appl	C 536	8	100.0	231	2	US-08-469-660-173	Sequence 173, Appl
C 464	8	100.0	194	4	US-09-671-325-1531	Sequence 1531, Appl	C 537	8	100.0	231	3	US-08-341-018-9	Sequence 9, Appl
C 465	8	100.0	196	3	US-09-221-298-76	Sequence 76, Appl	C 538	8	100.0	231	3	US-08-470-335-173	Sequence 173, Appl

C 539	8	100.0	231	3	US-08-735-021-173	Sequence 173, App	C 612	8	100.0	256	4	US-09-439-313-210	Sequence 210, App
C 540	8	100.0	231	3	US-08-734-664A-173	Sequence 173, App	C 613	8	100.0	256	4	US-09-352-616A-210	Sequence 210, App
C 541	8	100.0	231	3	US-08-470-339-173	Sequence 173, App	C 614	8	100.0	256	4	US-09-232-149A-210	Sequence 210, App
C 542	8	100.0	231	3	US-08-461-697-450	Sequence 450, App	C 615	8	100.0	256	4	US-09-313-294A-3519	Sequence 2519, App
C 543	8	100.0	231	3	US-08-467-602-173	Sequence 173, App	C 616	8	100.0	256	4	US-09-016-434-116	Sequence 116, App
C 544	8	100.0	231	4	US-09-543-681A-2900	Sequence 2900, App	C 617	8	100.0	256	4	US-09-016-434-845	Sequence 845, App
C 545	8	100.0	231	4	US-09-489-039A-389	Sequence 389, App	C 618	8	100.0	256	4	US-09-702-705-1140	Sequence 1140, App
C 546	8	100.0	231	5	PCT-US94-05083C-169	Sequence 169, App	C 619	8	100.0	256	4	US-09-736-457-1140	Sequence 1140, App
C 547	8	100.0	231	5	PCT-US95-06846A-173	Sequence 173, App	C 620	8	100.0	256	4	US-09-159-813-210	Sequence 210, App
C 548	8	100.0	232	4	US-09-016-434-451	Sequence 451, App	C 621	8	100.0	256	4	US-09-636-215-210	Sequence 210, App
C 549	8	100.0	233	4	US-09-621-976-10840	Sequence 10840, A	C 622	8	100.0	256	4	US-09-685-166A-210	Sequence 210, App
C 550	8	100.0	234	4	US-09-495-050A-121	Sequence 121, App	C 623	8	100.0	256	4	US-09-614-124B-1140	Sequence 1140, App
C 551	8	100.0	234	4	US-09-328-352-1690	Sequence 1690, App	C 624	8	100.0	256	4	US-09-115-453-210	Sequence 210, App
C 552	8	100.0	234	4	US-09-621-976-3554	Sequence 3554, App	C 625	8	100.0	256	4	US-09-688-489-210	Sequence 210, App
C 553	8	100.0	235	4	US-08-956-171B-4536	Sequence 4536, App	C 626	8	100.0	256	4	US-09-671-325-1140	Sequence 1140, App
C 554	8	100.0	236	3	US-09-221-298-51	Sequence 51, Appl	C 627	8	100.0	257	2	US-08-727-688-6	Sequence 6, Appl
C 555	8	100.0	236	4	US-09-401-064-51	Sequence 51, Appl	C 628	8	100.0	257	3	US-09-112-096-1	Sequence 1, Appl
C 556	8	100.0	237	3	US-08-904-263A-5	Sequence 5, Appl	C 629	8	100.0	258	4	US-09-016-434-633	Sequence 633, App
C 557	8	100.0	237	4	US-09-434-123A-5	Sequence 5, Appl	C 630	8	100.0	258	4	US-09-328-352-175	Sequence 175, App
C 558	8	100.0	237	4	US-08-956-171B-4566	Sequence 4566, App	C 631	8	100.0	259	4	US-09-313-294A-2034	Sequence 2034, App
C 559	8	100.0	238	3	US-08-973-068-31	Sequence 31, Appl	C 632	8	100.0	259	4	US-09-313-294A-2047	Sequence 2047, App
C 560	8	100.0	239	4	US-09-016-434-964	Sequence 964, App	C 633	8	100.0	260	4	US-09-313-294A-1761	Sequence 1761, App
C 561	8	100.0	239	4	US-08-956-171B-4543	Sequence 4543, App	C 634	8	100.0	260	4	US-09-313-294A-2302	Sequence 2302, App
C 562	8	100.0	239	4	US-08-956-171B-4544	Sequence 4544, App	C 635	8	100.0	260	4	US-08-956-171B-4505	Sequence 4505, App
C 563	8	100.0	240	2	US-08-727-688-7	Sequence 7, Appl	C 636	8	100.0	261	4	US-09-313-294A-2033	Sequence 2033, App
C 564	8	100.0	240	4	US-09-107-532A-2238	Sequence 2238, App	C 637	8	100.0	261	4	US-09-313-294A-3636	Sequence 3636, App
C 565	8	100.0	240	4	US-09-540-236-1263	Sequence 1263, App	C 638	8	100.0	261	4	US-09-389-681-411	Sequence 411, App
C 566	8	100.0	241	4	US-08-397-787-56	Sequence 56, Appl	C 639	8	100.0	261	4	US-09-620-405B-411	Sequence 411, App
C 567	8	100.0	241	4	US-09-389-681-360	Sequence 360, App	C 640	8	100.0	261	4	US-09-433-828B-411	Sequence 411, App
C 568	8	100.0	241	4	US-09-620-405B-360	Sequence 360, App	C 641	8	100.0	261	4	US-09-604-287A-411	Sequence 411, App
C 569	8	100.0	241	4	US-09-433-828B-360	Sequence 360, App	C 642	8	100.0	261	4	US-09-543-681A-1098	Sequence 1098, App
C 570	8	100.0	241	4	US-09-604-287A-360	Sequence 360, App	C 643	8	100.0	261	4	US-09-489-039A-6740	Sequence 6740, App
C 571	8	100.0	241	4	US-09-834-759-360	Sequence 360, App	C 644	8	100.0	261	4	US-09-834-759-367	Sequence 367, App
C 572	8	100.0	242	3	US-09-060-756-328	Sequence 328, App	C 645	8	100.0	262	3	US-09-060-756-367	Sequence 367, App
C 573	8	100.0	242	4	US-09-670-314-328	Sequence 328, App	C 646	8	100.0	262	3	US-08-905-223-153	Sequence 153, App
C 574	8	100.0	242	4	US-09-621-976-13882	Sequence 13882, A	C 647	8	100.0	262	4	US-09-313-294A-1614	Sequence 1614, App
C 575	8	100.0	243	3	US-09-172-108-12	Sequence 12, Appl	C 648	8	100.0	262	4	US-09-313-294A-2355	Sequence 2355, App
C 576	8	100.0	243	4	US-09-489-039A-5864	Sequence 5864, App	C 649	8	100.0	262	4	US-09-670-314-367	Sequence 367, App
C 577	8	100.0	244	1	US-08-232-177A-48	Sequence 48, Appl	C 650	8	100.0	263	1	US-09-985-799-108	Sequence 108, App
C 578	8	100.0	244	4	US-09-501-192-10	Sequence 10, Appl	C 651	8	100.0	263	2	US-08-594-031-108	Sequence 108, App
C 579	8	100.0	245	4	US-09-621-976-9527	Sequence 9527, App	C 652	8	100.0	263	2	US-08-318-837-3	Sequence 3, Appl
C 580	8	100.0	246	4	US-09-313-294A-3579	Sequence 3579, App	C 653	8	100.0	263	4	US-09-566-876-19	Sequence 19, Appl
C 581	8	100.0	246	4	US-09-016-434-138	Sequence 138, App	C 654	8	100.0	264	4	US-09-328-352-17	Sequence 17, Appl
C 582	8	100.0	246	4	US-09-352-991A-3355	Sequence 3355, App	C 655	8	100.0	265	3	US-09-172-108-10	Sequence 10, Appl
C 583	8	100.0	246	4	US-09-107-532A-2890	Sequence 2890, App	C 656	8	100.0	266	1	US-09-985-799-164	Sequence 164, App
C 584	8	100.0	246	4	US-09-107-532A-3397	Sequence 3397, App	C 657	8	100.0	266	1	US-08-594-031-164	Sequence 164, App
C 585	8	100.0	246	4	US-09-107-532A-3397	Sequence 3397, App	C 658	8	100.0	266	4	US-09-313-294A-3589	Sequence 3589, App
C 586	8	100.0	247	2	US-08-687-080-81	Sequence 81, Appl	C 659	8	100.0	267	4	US-09-313-294A-3091	Sequence 3091, App
C 587	8	100.0	247	4	US-09-292-097-10	Sequence 10, Appl	C 660	8	100.0	267	4	US-09-313-294A-3092	Sequence 3092, App
C 588	8	100.0	248	4	US-09-313-294A-1627	Sequence 1627, App	C 661	8	100.0	267	4	US-09-313-294A-7187	Sequence 7187, App
C 589	8	100.0	249	4	US-09-107-532A-2944	Sequence 2944, App	C 662	8	100.0	267	4	US-09-621-976-14155	Sequence 14155, A
C 590	8	100.0	249	4	US-08-134-000C-1346	Sequence 1346, App	C 663	8	100.0	268	4	US-09-280-116-156	Sequence 156, App
C 591	8	100.0	249	4	US-09-621-976-17085	Sequence 17085, A	C 664	8	100.0	268	4	US-09-313-294A-1844	Sequence 1844, App
C 592	8	100.0	249	4	US-09-540-236-1604	Sequence 1604, App	C 665	8	100.0	269	4	US-09-304-603A-3	Sequence 3, Appl
C 593	8	100.0	250	4	US-09-016-434-522	Sequence 522, App	C 666	8	100.0	270	3	US-08-793-660B-10	Sequence 10, Appl
C 594	8	100.0	251	4	US-09-439-313-381	Sequence 381, App	C 667	8	100.0	270	4	US-09-702-705-292	Sequence 292, App
C 595	8	100.0	251	4	US-09-352-616A-381	Sequence 381, App	C 668	8	100.0	270	4	US-09-736-457-292	Sequence 292, App
C 596	8	100.0	251	4	US-09-016-434-538	Sequence 538, App	C 669	8	100.0	270	4	US-09-328-352-1083	Sequence 1083, App
C 597	8	100.0	251	4	US-09-636-215-381	Sequence 381, App	C 670	8	100.0	270	4	US-09-671-325-292	Sequence 292, App
C 598	8	100.0	251	4	US-09-685-166A-381	Sequence 381, App	C 671	8	100.0	270	4	US-09-589-184-292	Sequence 292, App
C 599	8	100.0	252	4	US-09-601-198-34	Sequence 34, Appl	C 672	8	100.0	270	4	US-09-313-294A-118	Sequence 118, Appl
C 600	8	100.0	252	4	US-09-328-352-2834	Sequence 2834, App	C 673	8	100.0	271	4	US-09-482-271-21	Sequence 21, Appl
C 601	8	100.0	252	4	US-09-107-532A-1150	Sequence 1150, App	C 674	8	100.0	272	4	US-09-621-976-643	Sequence 643, App
C 602	8	100.0	253	4	US-09-313-294A-6236	Sequence 6236, App	C 675	8	100.0	272	4	US-09-313-294A-1681	Sequence 1681, App
C 603	8	100.0	253	4	US-09-016-434-271	Sequence 271, App	C 676	8	100.0	273	4	US-09-313-294A-1818	Sequence 1818, App
C 604	8	100.0	253	4	US-08-956-171B-4512	Sequence 4512, App	C 677	8	100.0	273	4	US-09-313-294A-2459	Sequence 2459, App
C 605	8	100.0	254	1	US-08-171-718-117	Sequence 117, App	C 678	8	100.0	273	4	US-09-313-294A-3691	Sequence 3691, App
C 606	8	100.0	254	3	US-08-478-087-117	Sequence 117, App	C 679	8	100.0	273	4	US-09-489-039A-1728	Sequence 1728, App
C 607	8	100.0	254	4	US-09-833-381-1655	Sequence 1655, App	C 680	8	100.0	274	4	US-09-313-294A-1003	Sequence 1003, App
C 608	8	100.0	255	2	US-08-727-688-8	Sequence 8, Appl	C 681	8	100.0	274	4	US-09-313-294A-2614	Sequence 2614, App
C 609	8	100.0	255	4	US-09-621-976-3516	Sequence 3516, App	C 682	8	100.0	274	4	US-09-313-294A-6514	Sequence 6514, App
C 610	8	100.0	255	4	US-09-621-976-9406	Sequence 9406, App	C 683	8	100.0	274	4	US-09-621-976-15387	Sequence 15387, A
C 611	8	100.0	256	3	US-09-030-607-210	Sequence 210, App	C 684	8	100.0	275	4	US-09-313-294A-2174	Sequence 2174, App

685	8	100.0	275	4	US-09-313-294A-3081	Sequence 3081, Ap	c 758	8	100.0	290	4	US-09-313-294A-4503	Sequence 4503, Ap
686	8	100.0	275	4	US-09-313-294A-6481	Sequence 6481, Ap	c 759	8	100.0	290	4	US-09-313-294A-5996	Sequence 5996, Ap
687	8	100.0	275	4	US-09-621-976-17872	Sequence 17872, A	c 760	8	100.0	290	4	US-09-313-294A-7435	Sequence 7435, Ap
688	8	100.0	276	3	US-08-905-223-55	Sequence 55, Appl	c 761	8	100.0	291	3	US-09-172-711-39	Sequence 39, Appl
689	8	100.0	276	4	US-09-216-393B-132	Sequence 132, App	c 762	8	100.0	291	4	US-09-313-294A-2913	Sequence 2913, Ap
690	8	100.0	276	4	US-09-621-976-14870	Sequence 14870, A	c 763	8	100.0	291	4	US-09-313-294A-7401	Sequence 7401, Ap
691	8	100.0	277	4	US-09-313-294A-891	Sequence 891, App	c 764	8	100.0	291	4	US-09-328-352-3827	Sequence 3827, Ap
692	8	100.0	277	4	US-09-313-294A-1030	Sequence 1030, Ap	c 765	8	100.0	291	4	US-09-636-215-823	Sequence 823, App
693	8	100.0	277	4	US-09-313-294A-2646	Sequence 2646, Ap	c 766	8	100.0	291	4	US-09-685-166A-823	Sequence 823, App
694	8	100.0	277	4	US-09-313-294A-4756	Sequence 4756, Ap	c 767	8	100.0	292	4	US-09-313-294A-1970	Sequence 1970, Ap
695	8	100.0	277	4	US-08-313-294A-6717	Sequence 6717, Ap	c 768	8	100.0	293	4	US-09-360-545-63	Sequence 63, Appl
696	8	100.0	278	1	US-08-222-177A-52	Sequence 52, Appl	c 769	8	100.0	293	4	US-09-313-294A-5109	Sequence 5109, Ap
697	8	100.0	278	4	US-09-313-294A-3111	Sequence 3111, Ap	c 770	8	100.0	293	4	US-09-313-294A-7431	Sequence 7431, Ap
698	8	100.0	278	4	US-09-313-294A-3325	Sequence 3325, Ap	c 771	8	100.0	293	4	US-09-621-976-14647	Sequence 14647, A
699	8	100.0	278	4	US-09-313-294A-3778	Sequence 3778, Ap	c 772	8	100.0	293	4	US-09-807-897-8	Sequence 8, Appl1
700	8	100.0	278	4	US-09-313-294A-5841	Sequence 5841, Ap	c 773	8	100.0	294	3	US-08-750-064-2	Sequence 2, Appl1
701	8	100.0	278	4	US-09-313-294A-5847	Sequence 5847, Ap	c 774	8	100.0	294	3	US-08-545-156B-15	Sequence 15, Appl
702	8	100.0	279	1	US-08-143-576-9	Sequence 9, Appl1	c 775	8	100.0	294	4	US-09-615-192A-246	Sequence 246, App
703	8	100.0	279	4	US-09-247-155-180	Sequence 180, App	c 776	8	100.0	294	4	US-09-313-294A-4610	Sequence 4610, Ap
704	8	100.0	279	4	US-09-313-294A-2815	Sequence 2815, Ap	c 777	8	100.0	294	4	US-09-252-991A-12337	Sequence 12337, A
705	8	100.0	279	4	US-09-313-294A-3398	Sequence 3398, Ap	c 778	8	100.0	295	4	US-09-313-294A-6387	Sequence 6387, Ap
706	8	100.0	280	4	US-09-313-294A-2219	Sequence 2219, Ap	c 779	8	100.0	296	4	US-09-313-294A-1383	Sequence 1383, Ap
707	8	100.0	280	4	US-09-621-976-7953	Sequence 7953, Ap	c 780	8	100.0	297	4	US-09-313-294A-4978	Sequence 4978, Ap
708	8	100.0	280	5	PCI-US94-04361-14	Sequence 14, Appl	c 781	8	100.0	297	4	US-09-489-039A-85	Sequence 85, Appl
709	8	100.0	281	4	US-09-313-294A-1254	Sequence 1254, Ap	c 782	8	100.0	298	4	US-09-313-294A-4437	Sequence 4437, Ap
710	8	100.0	281	4	US-09-313-294A-4203	Sequence 4203, Ap	c 783	8	100.0	299	4	US-09-313-294A-4231	Sequence 4231, Ap
711	8	100.0	281	4	US-09-313-294A-4628	Sequence 4628, Ap	c 784	8	100.0	299	4	US-09-313-294A-7395	Sequence 7395, Ap
712	8	100.0	281	4	US-09-313-294A-5156	Sequence 5156, Ap	c 785	8	100.0	299	4	US-09-702-705-518	Sequence 518, App
713	8	100.0	281	4	US-09-621-976-3545	Sequence 3545, Ap	c 786	8	100.0	299	4	US-09-736-457-518	Sequence 518, App
714	8	100.0	282	4	US-09-313-294A-8	Sequence 8, Appl1	c 787	8	100.0	299	4	US-09-614-124B-518	Sequence 518, App
715	8	100.0	282	4	US-09-313-294A-874	Sequence 874, App	c 788	8	100.0	299	4	US-09-589-184-518	Sequence 518, App
716	8	100.0	282	4	US-09-313-294A-3951	Sequence 3951, Ap	c 789	8	100.0	299	4	US-09-671-325-518	Sequence 518, App
717	8	100.0	282	4	US-09-313-294A-4126	Sequence 4126, Ap	c 790	8	100.0	300	2	US-09-033-684-17	Sequence 17, Appl
718	8	100.0	282	4	US-09-313-294A-5764	Sequence 5764, Ap	c 791	8	100.0	300	4	US-09-313-294A-5664	Sequence 5664, Ap
719	8	100.0	282	4	US-09-107-532A-35	Sequence 35, Appl	c 792	8	100.0	300	4	US-09-016-434-384	Sequence 384, App
720	8	100.0	282	4	US-09-621-976-3576	Sequence 3576, Ap	c 793	8	100.0	300	4	US-09-702-705-649	Sequence 649, App
721	8	100.0	282	4	US-09-621-976-13103	Sequence 13103, A	c 794	8	100.0	300	4	US-09-736-457-649	Sequence 649, App
722	8	100.0	283	1	US-08-181-364-2	Sequence 2, Appl1	c 795	8	100.0	300	4	US-09-023-655-831	Sequence 831, App
723	8	100.0	283	4	US-09-313-294A-1242	Sequence 1242, Ap	c 796	8	100.0	300	4	US-09-614-124B-649	Sequence 649, App
724	8	100.0	283	4	US-09-313-294A-2571	Sequence 2571, Ap	c 797	8	100.0	300	4	US-09-644-460-17	Sequence 17, Appl
725	8	100.0	283	4	US-09-313-294A-2608	Sequence 2608, Ap	c 798	8	100.0	300	4	US-08-671-325-649	Sequence 649, App
726	8	100.0	283	4	US-09-313-294A-3030	Sequence 3030, Ap	c 799	8	100.0	300	4	US-09-589-184-649	Sequence 649, App
727	8	100.0	283	4	US-09-313-294A-6812	Sequence 6812, Ap	c 800	8	100.0	301	4	US-09-439-313-242	Sequence 242, App
728	8	100.0	283	4	US-09-621-976-17871	Sequence 17871, A	c 801	8	100.0	301	4	US-09-439-313-252	Sequence 252, App
729	8	100.0	283	5	PCI-US93-01957-2	Sequence 2, Appl1	c 802	8	100.0	301	4	US-09-439-313-288	Sequence 288, App
730	8	100.0	284	3	US-08-905-223-248	Sequence 248, App	c 803	8	100.0	301	4	US-09-352-616A-242	Sequence 242, App
731	8	100.0	284	4	US-09-313-294A-1398	Sequence 1398, Ap	c 804	8	100.0	301	4	US-09-352-616A-252	Sequence 252, App
732	8	100.0	284	4	US-09-313-294A-2787	Sequence 2787, Ap	c 805	8	100.0	301	4	US-09-352-616A-288	Sequence 288, App
733	8	100.0	284	4	US-09-313-294A-3762	Sequence 3762, Ap	c 806	8	100.0	301	4	US-09-232-149A-242	Sequence 242, App
734	8	100.0	284	4	US-09-313-294A-4389	Sequence 4389, Ap	c 807	8	100.0	301	4	US-09-232-149A-252	Sequence 252, App
735	8	100.0	284	4	US-09-050-516-22	Sequence 22, Appl	c 808	8	100.0	301	4	US-09-232-149A-288	Sequence 288, App
736	8	100.0	284	4	US-10-278-547-22	Sequence 22, Appl	c 809	8	100.0	301	4	US-09-313-294A-4954	Sequence 4954, Ap
737	8	100.0	285	3	US-08-866-340-28	Sequence 28, Appl	c 810	8	100.0	301	4	US-09-313-294A-7305	Sequence 7305, Ap
738	8	100.0	285	3	US-09-103-875-34	Sequence 34, Appl	c 811	8	100.0	301	4	US-09-313-294A-7308	Sequence 7308, Ap
739	8	100.0	285	4	US-09-462-561B-4	Sequence 4, Appl1	c 812	8	100.0	301	4	US-08-956-171E-3122	Sequence 3122, Ap
740	8	100.0	285	4	US-09-313-294A-1258	Sequence 1258, Ap	c 813	8	100.0	301	4	US-09-023-655-249	Sequence 249, App
741	8	100.0	285	4	US-09-313-294A-1397	Sequence 1397, Ap	c 814	8	100.0	301	4	US-09-159-812-242	Sequence 242, App
742	8	100.0	285	4	US-09-313-294A-6713	Sequence 6713, Ap	c 815	8	100.0	301	4	US-09-159-812-252	Sequence 252, App
743	8	100.0	285	4	US-09-252-991A-9893	Sequence 9893, Ap	c 816	8	100.0	301	4	US-09-636-215-288	Sequence 288, App
744	8	100.0	286	4	US-09-313-294A-6531	Sequence 6531, Ap	c 817	8	100.0	301	4	US-09-636-215-252	Sequence 252, App
745	8	100.0	286	4	US-09-313-294A-6658	Sequence 6658, Ap	c 818	8	100.0	301	4	US-09-636-215-252	Sequence 252, App
746	8	100.0	286	4	US-09-833-381-529	Sequence 529, App	c 819	8	100.0	301	4	US-09-685-166A-242	Sequence 242, App
747	8	100.0	287	4	US-09-313-294A-2011	Sequence 2011, Ap	c 820	8	100.0	301	4	US-09-685-166A-252	Sequence 252, App
748	8	100.0	287	4	US-09-313-294A-6801	Sequence 6801, Ap	c 821	8	100.0	301	4	US-09-685-166A-288	Sequence 288, App
749	8	100.0	288	3	US-09-172-108-31	Sequence 31, Appl	c 822	8	100.0	301	4	US-09-688-489-242	Sequence 242, App
750	8	100.0	288	3	US-09-172-711-28	Sequence 28, Appl	c 823	8	100.0	301	4	US-09-688-489-252	Sequence 252, App
751	8	100.0	288	4	US-09-313-294A-2916	Sequence 2916, Ap	c 824	8	100.0	301	4	US-09-688-489-252	Sequence 252, App
752	8	100.0	288	4	US-09-313-294A-3968	Sequence 3968, Ap	c 825	8	100.0	301	4	US-09-688-489-288	Sequence 288, App
753	8	100.0	288	4	US-09-313-294A-4134	Sequence 4134, Ap	c 826	8	100.0	303	4	US-09-439-313-403	Sequence 403, App
754	8	100.0	288	4	US-09-543-681A-414	Sequence 414, App	c 827	8	100.0	303	4	US-09-352-616A-403	Sequence 403, App
755	8	100.0	288	4	US-09-540-236-349	Sequence 349, App	c 828	8	100.0	303	4	US-09-313-294A-273	Sequence 273, App
756	8	100.0	289	4	US-09-313-294A-6462	Sequence 6462, Ap	c 829	8	100.0	303	4	US-09-313-294A-3905	Sequence 3905, Ap
757	8	100.0	290	4	US-09-313-294A-619	Sequence 619, App	c 830	8	100.0	303	4	US-09-636-215-403	Sequence 403, App

C 831	8	100.0	303	4	US-09-685-166A-403	Sequence 403, App	C 904	8	100.0	323	4	US-09-621-976-17188	Sequence 17188, A
C 832	8	100.0	304	4	US-09-313-294A-1358	Sequence 1358, App	C 905	8	100.0	324	4	US-09-543-681A-2280	Sequence 2280, App
C 833	8	100.0	304	4	US-09-389-681-301	Sequence 301, App	C 906	8	100.0	324	4	US-09-489-039A-5825	Sequence 5825, App
C 834	8	100.0	304	4	US-09-620-405B-301	Sequence 301, App	C 907	8	100.0	324	4	US-09-134-000C-2176	Sequence 2176, App
C 835	8	100.0	304	4	US-09-339-338-301	Sequence 301, App	C 908	8	100.0	325	4	US-08-956-171B-4226	Sequence 4226, App
C 836	8	100.0	304	4	US-09-433-826B-301	Sequence 301, App	C 909	8	100.0	325	4	US-09-621-976-1428	Sequence 1428, App
C 837	8	100.0	304	4	US-09-604-287A-301	Sequence 301, App	C 910	8	100.0	325	4	US-09-621-976-18658	Sequence 18658, A
C 838	8	100.0	304	4	US-09-834-759-301	Sequence 301, App	C 911	8	100.0	326	4	US-09-621-976-8536	Sequence 8536, A
C 839	8	100.0	306	4	US-09-134-000C-892	Sequence 892, App	C 912	8	100.0	327	1	US-08-451-473-22	Sequence 22, Appl
C 840	8	100.0	307	4	US-09-313-294A-6621	Sequence 6621, App	C 913	8	100.0	327	1	US-09-240-274-223	Sequence 223, Appl
C 841	8	100.0	308	4	US-09-313-294A-6321	Sequence 6321, App	C 914	8	100.0	329	4	US-09-702-705-409	Sequence 409, App
C 842	8	100.0	308	4	US-08-956-171B-4383	Sequence 4383, App	C 915	8	100.0	329	4	US-09-736-457-409	Sequence 409, App
C 843	8	100.0	309	1	US-08-086-410-24	Sequence 24, Appl	C 916	8	100.0	329	4	US-09-614-124B-409	Sequence 409, App
C 844	8	100.0	309	4	US-09-107-532A-2730	Sequence 2730, App	C 917	8	100.0	329	4	US-09-671-325-409	Sequence 409, App
C 845	8	100.0	310	4	US-09-313-294A-6946	Sequence 6946, App	C 918	8	100.0	329	4	US-09-589-184-409	Sequence 409, App
C 846	8	100.0	311	4	US-09-702-705-1752	Sequence 1752, App	C 919	8	100.0	330	1	US-08-165-301A-25	Sequence 25, Appl
C 847	8	100.0	311	4	US-09-736-457-1752	Sequence 1752, App	C 920	8	100.0	330	1	US-08-165-301A-27	Sequence 27, Appl
C 848	8	100.0	311	4	US-09-671-325-1752	Sequence 1752, App	C 921	8	100.0	330	3	US-08-810-436-25	Sequence 25, Appl
C 849	8	100.0	312	3	US-09-188-930-21	Sequence 21, Appl	C 922	8	100.0	330	3	US-08-810-436-27	Sequence 27, Appl
C 850	8	100.0	312	3	US-09-328-111-752	Sequence 752, App	C 923	8	100.0	330	4	US-09-199-637A-88	Sequence 88, Appl
C 851	8	100.0	312	4	US-09-313-294A-7461	Sequence 7461, App	C 924	8	100.0	330	4	US-09-252-991A-5045	Sequence 5045, App
C 852	8	100.0	312	4	US-09-702-705-43	Sequence 43, Appl	C 925	8	100.0	330	4	US-09-328-352-3100	Sequence 3100, App
C 853	8	100.0	312	4	US-09-736-457-43	Sequence 43, Appl	C 926	8	100.0	330	4	US-09-401-064-314	Sequence 314, App
C 854	8	100.0	312	4	US-09-312-283C-21	Sequence 21, Appl	C 927	8	100.0	330	5	PCT-US94-14179-25	Sequence 25, Appl
C 855	8	100.0	312	4	US-09-614-124B-43	Sequence 43, Appl	C 928	8	100.0	330	5	PCT-US94-14179-27	Sequence 27, Appl
C 856	8	100.0	312	4	US-09-621-976-8485	Sequence 8485, App	C 929	8	100.0	331	3	US-09-060-756-308	Sequence 308, App
C 857	8	100.0	312	4	US-09-671-325-43	Sequence 43, Appl	C 930	8	100.0	331	4	US-09-670-314-308	Sequence 308, App
C 858	8	100.0	312	4	US-09-589-184-43	Sequence 43, Appl	C 931	8	100.0	332	3	US-09-385-983-249	Sequence 249, App
C 859	8	100.0	313	4	US-09-621-976-15389	Sequence 15389, A	C 932	8	100.0	332	3	US-08-387-707-14	Sequence 14, Appl
C 860	8	100.0	313	4	US-09-621-976-14124	Sequence 14124, A	C 933	8	100.0	332	4	US-08-405-271A-14	Sequence 14, Appl
C 861	8	100.0	316	4	US-09-313-294A-5170	Sequence 5170, App	C 934	8	100.0	333	4	US-09-313-294A-5051	Sequence 5051, App
C 862	8	100.0	316	4	US-09-621-976-14144	Sequence 14144, A	C 935	8	100.0	333	4	US-09-702-705-384	Sequence 384, App
C 863	8	100.0	317	4	US-09-621-976-8484	Sequence 8484, App	C 936	8	100.0	333	4	US-09-736-457-384	Sequence 384, App
C 864	8	100.0	317	4	US-09-702-705-1376	Sequence 1376, App	C 937	8	100.0	333	4	US-09-084-303B-209	Sequence 209, App
C 865	8	100.0	318	4	US-09-736-457-1376	Sequence 1376, App	C 938	8	100.0	333	4	US-09-614-124B-384	Sequence 384, App
C 866	8	100.0	318	4	US-09-489-039A-5344	Sequence 5344, App	C 939	8	100.0	333	4	US-09-571-325-384	Sequence 384, App
C 867	8	100.0	318	4	US-09-614-124B-1376	Sequence 1376, App	C 940	8	100.0	333	4	US-09-589-184-384	Sequence 384, App
C 868	8	100.0	318	4	US-09-671-325-1376	Sequence 1376, App	C 941	8	100.0	334	3	US-08-358-171-22	Sequence 22, Appl
C 869	8	100.0	318	4	US-09-833-381-1102	Sequence 1102, App	C 942	8	100.0	334	3	US-09-090-947-22	Sequence 22, Appl
C 870	8	100.0	318	4	US-09-540-236-805	Sequence 805, App	C 943	8	100.0	335	4	US-09-621-976-9138	Sequence 9138, App
C 871	8	100.0	318	4	US-09-540-236-1237	Sequence 1237, App	C 944	8	100.0	335	4	US-09-621-976-18087	Sequence 18087, A
C 872	8	100.0	319	2	US-08-244-537-11	Sequence 11, Appl	C 945	8	100.0	336	3	US-09-065-058-14	Sequence 14, Appl
C 873	8	100.0	319	3	US-09-328-111-477	Sequence 477, App	C 946	8	100.0	336	4	US-09-489-039A-4335	Sequence 4335, App
C 874	8	100.0	319	4	US-08-882-164D-35	Sequence 35, Appl	C 947	8	100.0	336	4	US-09-621-976-3198	Sequence 3198, App
C 875	8	100.0	319	4	US-09-250-609-65	Sequence 65, Appl	C 948	8	100.0	336	4	US-09-540-236-29	Sequence 29, Appl
C 876	8	100.0	319	4	US-09-250-611-65	Sequence 65, Appl	C 949	8	100.0	338	2	US-08-875-973-20	Sequence 20, Appl
C 877	8	100.0	320	4	US-09-643-597-194	Sequence 194, App	C 950	8	100.0	338	4	US-09-511-625B-35	Sequence 35, Appl
C 878	8	100.0	320	4	US-09-480-884A-194	Sequence 194, App	C 951	8	100.0	339	4	US-09-134-000C-2506	Sequence 2506, App
C 879	8	100.0	320	4	US-09-389-681-310	Sequence 310, App	C 952	8	100.0	339	4	US-09-621-976-9848	Sequence 9848, App
C 880	8	100.0	320	4	US-09-389-681-310	Sequence 310, App	C 953	8	100.0	339	4	US-09-621-976-17187	Sequence 17187, A
C 881	8	100.0	320	4	US-09-542-615A-194	Sequence 194, App	C 954	8	100.0	340	4	US-08-956-171B-4195	Sequence 4195, App
C 882	8	100.0	320	4	US-09-620-405B-310	Sequence 310, App	C 955	8	100.0	341	4	US-09-621-976-18721	Sequence 18721, A
C 883	8	100.0	320	4	US-09-620-405B-310	Sequence 310, App	C 956	8	100.0	344	3	US-08-991-789A-66	Sequence 66, Appl
C 884	8	100.0	320	4	US-09-606-421B-194	Sequence 194, App	C 957	8	100.0	344	4	US-09-062-451-66	Sequence 66, Appl
C 885	8	100.0	320	4	US-09-339-338-310	Sequence 310, App	C 958	8	100.0	344	4	US-09-598-326-66	Sequence 66, Appl
C 886	8	100.0	320	4	US-09-339-338-310	Sequence 310, App	C 959	8	100.0	344	4	US-09-289-198-66	Sequence 66, Appl
C 887	8	100.0	320	4	US-09-433-826B-310	Sequence 310, App	C 960	8	100.0	344	4	US-09-621-976-18897	Sequence 18897, A
C 888	8	100.0	320	4	US-09-604-287A-310	Sequence 310, App	C 961	8	100.0	345	3	US-09-429-755-66	Sequence 66, Appl
C 889	8	100.0	320	4	US-09-621-976-11557	Sequence 11557, A	C 962	8	100.0	345	3	US-09-328-111-57	Sequence 57, Appl
C 890	8	100.0	320	4	US-09-834-759-310	Sequence 310, App	C 963	8	100.0	346	1	US-08-263-413-13	Sequence 13, Appl
C 891	8	100.0	320	4	US-09-834-759-310	Sequence 310, App	C 964	8	100.0	346	2	US-08-967-101-33	Sequence 33, Appl
C 892	8	100.0	320	4	US-09-834-759-310	Sequence 310, App	C 965	8	100.0	346	3	US-08-592-541-33	Sequence 33, Appl
C 893	8	100.0	321	3	US-08-638-931-56	Sequence 56, Appl	C 966	8	100.0	346	3	US-09-124-698-33	Sequence 33, Appl
C 894	8	100.0	321	3	US-08-638-931-56	Sequence 56, Appl	C 967	8	100.0	346	3	US-09-127-480-33	Sequence 33, Appl
C 895	8	100.0	321	3	US-08-638-931-56	Sequence 56, Appl	C 968	8	100.0	346	3	US-08-496-841C-33	Sequence 33, Appl
C 896	8	100.0	321	4	US-09-370-838-104	Sequence 104, App	C 969	8	100.0	346	4	US-09-124-523-33	Sequence 33, Appl
C 897	8	100.0	321	4	US-09-328-352-95	Sequence 95, Appl	C 970	8	100.0	346	4	US-08-636-796A-33	Sequence 33, Appl
C 898	8	100.0	321	4	US-09-621-976-7978	Sequence 7978, App	C 971	8	100.0	346	4	US-08-431-048F-33	Sequence 33, Appl
C 899	8	100.0	322	4	US-09-495-050A-281	Sequence 281, App	C 972	8	100.0	346	4	US-08-956-171B-4350	Sequence 4350, App
C 900	8	100.0	322	4	US-09-621-976-1572	Sequence 1572, App	C 973	8	100.0	347	4	US-09-397-787-309	Sequence 309, App
C 901	8	100.0	322	4	US-09-621-976-8518	Sequence 8518, App	C 974	8	100.0	348	4	US-09-328-352-3762	Sequence 3762, App
C 902	8	100.0	323	1	US-08-474-633A-103	Sequence 103, App	C 975	8	100.0	349	4	US-09-621-976-8455	Sequence 8455, App
C 903	8	100.0	323	4	US-08-823-771-103	Sequence 103, App	C 976	8	100.0	350	1	US-09-585-799-173	Sequence 173, App

c 977	8	100.0	350	1	US-08-263-413-12	Sequence 12, Appl	c1050	8	100.0	372	4	US-09-634-238-155	Sequence 155, App
978	8	100.0	350	1	US-08-594-031-173	Sequence 173, App	c1051	8	100.0	372	4	US-09-252-991A-4744	Sequence 4744, Ap
979	8	100.0	350	1	US-08-688-988-11	Sequence 11, Appl	c1052	8	100.0	372	4	US-09-107-532A-1929	Sequence 1929, Ap
c 980	8	100.0	351	3	US-09-085-1998-41	Sequence 41, Appl	c1053	8	100.0	372	4	US-09-107-532A-1930	Sequence 1930, Ap
c 981	8	100.0	351	4	US-09-023-655-261	Sequence 261, App	1054	8	100.0	372	4	US-09-489-039A-4410	Sequence 4410, Ap
c 982	8	100.0	352	3	US-08-973-068-30	Sequence 30, Appl	c1055	8	100.0	372	4	US-09-134-000C-3150	Sequence 3150, Ap
983	8	100.0	353	3	US-09-188-930-10	Sequence 10, Appl	c1056	8	100.0	372	4	US-09-621-976-1503	Sequence 1503, Ap
984	8	100.0	353	4	US-09-404-879A-351	Sequence 351, App	c1057	8	100.0	372	2	US-08-976-074-3	Sequence 3, Appl
985	8	100.0	353	4	US-09-312-283C-10	Sequence 10, Appl	c1058	8	100.0	373	2	US-08-083-741-3	Sequence 3, Appl
986	8	100.0	353	4	US-09-621-976-16151	Sequence 16151, A	c1059	8	100.0	373	4	US-08-976-166A-3	Sequence 3, Appl
987	8	100.0	354	4	US-08-412-484-7	Sequence 7, Appl	1060	8	100.0	373	4	US-09-702-705-1625	Sequence 1625, Ap
c 988	8	100.0	354	4	US-09-107-532B-3530	Sequence 3530, Ap	1061	8	100.0	373	4	US-09-736-457-1625	Sequence 1625, Ap
989	8	100.0	354	4	US-08-956-171B-4134	Sequence 4134, Ap	c1062	8	100.0	373	4	US-09-673-395A-2	Sequence 2, Appl
c 990	8	100.0	354	4	US-09-621-976-17186	Sequence 17186, A	1063	8	100.0	373	4	US-09-614-124B-1625	Sequence 1625, Ap
991	8	100.0	355	3	US-09-328-111-836	Sequence 836, App	1064	8	100.0	373	4	US-09-671-325-1625	Sequence 1625, Ap
c 992	8	100.0	355	4	US-09-702-705-311	Sequence 311, App	c1065	8	100.0	374	4	US-08-956-171E-4129	Sequence 4129, Ap
c 993	8	100.0	355	4	US-09-736-457-311	Sequence 311, App	c1066	8	100.0	374	4	US-09-621-976-1504	Sequence 1504, Ap
c 994	8	100.0	355	4	US-09-614-124B-311	Sequence 311, App	1067	8	100.0	374	4	US-09-621-976-18839	Sequence 18839, A
c 995	8	100.0	355	4	US-09-671-325-311	Sequence 311, App	c1068	8	100.0	374	4	US-09-807-897-1	Sequence 1, Appl
c 996	8	100.0	355	4	US-09-589-184-311	Sequence 311, App	c1069	8	100.0	374	4	US-09-807-897-7	Sequence 7, Appl
997	8	100.0	356	3	US-08-836-075A-25	Sequence 25, Appl	c1070	8	100.0	375	4	US-09-107-532A-111	Sequence 111, App
c 998	8	100.0	356	4	US-09-621-976-104	Sequence 104, App	1071	8	100.0	375	4	US-09-107-532A-2360	Sequence 2360, Ap
c 999	8	100.0	357	1	US-08-442-542-13	Sequence 13, Appl	1072	8	100.0	375	4	US-09-134-000C-2402	Sequence 2402, Ap
c1000	8	100.0	357	1	US-08-442-542-14	Sequence 44, Appl	1073	8	100.0	377	3	US-08-513-974B-49	Sequence 49, Appl
c1001	8	100.0	357	3	US-08-765-469-13	Sequence 13, Appl	1074	8	100.0	377	4	US-09-461-436B-49	Sequence 49, Appl
c1002	8	100.0	357	3	US-08-765-469-44	Sequence 44, Appl	c1075	8	100.0	377	4	US-09-621-976-9515	Sequence 9515, Ap
c1003	8	100.0	357	3	US-08-906-769-108	Sequence 108, App	1076	8	100.0	378	1	US-08-118-906-1	Sequence 1, Appl
c1004	8	100.0	359	3	US-08-906-616-108	Sequence 108, App	1077	8	100.0	378	1	US-08-488-196-1	Sequence 1, Appl
c1005	8	100.0	359	3	US-08-817-795-108	Sequence 108, App	1078	8	100.0	378	2	US-08-474-065-1	Sequence 1, Appl
c1006	8	100.0	359	3	US-08-639-075A-108	Sequence 108, App	1079	8	100.0	378	4	US-08-956-171E-1942	Sequence 1942, A
c1007	8	100.0	359	3	US-09-012-431-108	Sequence 108, App	1080	8	100.0	378	4	US-09-621-976-11433	Sequence 11433, A
c1008	8	100.0	359	3	US-09-012-692-108	Sequence 108, App	c1081	8	100.0	380	3	US-09-328-111-393	Sequence 383, Appl
c1009	8	100.0	359	3	US-08-906-613-108	Sequence 108, App	c1082	8	100.0	380	4	US-09-453-195A-3	Sequence 3, Appl
c1010	8	100.0	359	5	PCT-US95-14442A-108	Sequence 108, App	c1083	8	100.0	381	3	US-09-488-857B-10	Sequence 10, Appl
c1011	8	100.0	360	1	US-07-320-519-28	Sequence 28, Appl	1084	8	100.0	381	4	US-08-956-171E-4023	Sequence 4023, Ap
c1012	8	100.0	360	1	US-08-086-410-21	Sequence 21, Appl	c1085	8	100.0	381	4	US-09-489-039A-5926	Sequence 5926, Ap
c1013	8	100.0	360	1	US-08-314-586-28	Sequence 28, Appl	c1086	8	100.0	381	4	US-09-621-976-16588	Sequence 16588, A
1014	8	100.0	360	3	US-08-943-731-79	Sequence 79, Appl	1087	8	100.0	382	4	US-09-389-681-458	Sequence 458, App
1015	8	100.0	360	4	US-09-134-001C-669	Sequence 669, App	1088	8	100.0	382	4	US-09-620-405B-458	Sequence 458, App
c1016	8	100.0	360	4	US-09-107-532A-3516	Sequence 3516, Ap	1089	8	100.0	382	4	US-09-433-826B-458	Sequence 458, App
c1017	8	100.0	360	4	US-09-621-976-1590	Sequence 1590, Ap	1090	8	100.0	382	4	US-09-604-287A-458	Sequence 458, App
1018	8	100.0	360	4	US-09-240-236-790	Sequence 790, App	1091	8	100.0	382	4	US-09-834-759-458	Sequence 458, App
c1019	8	100.0	361	4	US-09-702-705-1159	Sequence 1159, Ap	c1093	8	100.0	383	2	US-08-691-814B-74	Sequence 74, Appl
1020	8	100.0	361	4	US-09-702-705-1589	Sequence 1589, Ap	1094	8	100.0	383	4	US-09-702-705-595	Sequence 595, App
c1021	8	100.0	361	4	US-09-736-457-1159	Sequence 1159, Ap	1095	8	100.0	383	4	US-09-702-705-597	Sequence 597, App
1022	8	100.0	361	4	US-09-736-457-1589	Sequence 1589, Ap	1096	8	100.0	383	4	US-09-736-457-595	Sequence 595, App
c1023	8	100.0	361	4	US-08-956-171E-3947	Sequence 3947, Ap	1097	8	100.0	383	4	US-09-736-457-597	Sequence 597, App
c1024	8	100.0	361	4	US-09-614-124B-1159	Sequence 1159, Ap	1098	8	100.0	383	4	US-09-614-124B-595	Sequence 595, App
1025	8	100.0	361	4	US-09-614-124B-1589	Sequence 1589, Ap	1099	8	100.0	383	4	US-09-614-124B-597	Sequence 597, App
c1026	8	100.0	361	4	US-09-621-976-9070	Sequence 9070, Ap	1100	8	100.0	383	4	US-09-671-325-595	Sequence 595, App
c1027	8	100.0	361	4	US-09-621-976-13072	Sequence 13072, A	1101	8	100.0	383	4	US-09-671-325-597	Sequence 597, App
c1028	8	100.0	361	4	US-09-671-325-1159	Sequence 1159, Ap	1102	8	100.0	383	4	US-09-589-184-595	Sequence 595, App
1029	8	100.0	361	4	US-09-671-325-1589	Sequence 1589, Ap	1103	8	100.0	383	4	US-09-589-184-597	Sequence 597, App
1030	8	100.0	362	4	US-09-591-261-1	Sequence 1, Appl	c1104	8	100.0	384	3	US-08-867-902F-4	Sequence 4, Appl
c1031	8	100.0	362	4	US-09-621-976-11149	Sequence 11149, A	c1105	8	100.0	384	4	US-09-199-637A-254	Sequence 254, App
1032	8	100.0	362	4	US-09-621-976-15725	Sequence 15725, A	c1106	8	100.0	384	4	US-09-134-001C-653	Sequence 653, App
c1033	8	100.0	365	4	US-09-439-313-389	Sequence 389, App	c1107	8	100.0	384	4	US-09-671-317-262	Sequence 262, App
1034	8	100.0	365	4	US-09-352-616A-389	Sequence 389, App	c1108	8	100.0	386	4	US-09-370-838-54	Sequence 54, Appl
1035	8	100.0	365	4	US-09-636-215-389	Sequence 389, App	c1109	8	100.0	386	4	US-08-956-171E-4064	Sequence 4064, Ap
c1036	8	100.0	365	4	US-09-685-166A-389	Sequence 166A, App	c1110	8	100.0	386	4	US-09-621-976-8176	Sequence 8176, Ap
c1037	8	100.0	365	4	US-09-621-976-12759	Sequence 12759, A	c1111	8	100.0	386	4	US-09-621-976-13873	Sequence 13873, A
1038	8	100.0	366	4	US-09-328-352-2508	Sequence 2508, Ap	c1112	8	100.0	387	4	US-09-247-155-152	Sequence 152, App
1039	8	100.0	366	4	US-09-489-039A-6304	Sequence 6304, Ap	1113	8	100.0	387	4	US-09-268-480-9	Sequence 9, Appl
1040	8	100.0	366	4	US-09-833-381-1745	Sequence 1745, Ap	1114	8	100.0	387	4	US-09-252-991A-15642	Sequence 15642, A
c1041	8	100.0	368	4	US-09-621-976-14697	Sequence 14697, A	c1115	8	100.0	387	4	US-09-328-352-3621	Sequence 3621, Ap
1042	8	100.0	369	4	US-09-621-976-10486	Sequence 10486, A	1116	8	100.0	387	4	US-09-322-357-53	Sequence 53, Appl
c1043	8	100.0	370	4	US-09-621-976-1647	Sequence 1647, Ap	c1117	8	100.0	387	4	US-08-956-171E-2967	Sequence 2967, Ap
1044	8	100.0	371	2	US-08-522-841-6	Sequence 6, Appl	c1118	8	100.0	387	4	US-09-134-000C-2734	Sequence 2734, A
c1045	8	100.0	371	4	US-09-702-705-679	Sequence 679, App	c1119	8	100.0	387	4	US-09-621-976-13883	Sequence 13883, A
1046	8	100.0	371	4	US-09-736-457-679	Sequence 679, App	1120	8	100.0	387	4	US-08-540-236-1199	Sequence 1199, Ap
c1047	8	100.0	371	4	US-09-614-124B-679	Sequence 679, App	c1121	8	100.0	387	4	US-09-540-236-1764	Sequence 1764, Ap
c1048	8	100.0	371	4	US-09-671-325-679	Sequence 679, App	c1122	8	100.0	389	3	US-09-082-593-3	Sequence 3, Appl
1049	8	100.0	371	4	US-09-589-184-679	Sequence 679, App							

1123	8	100.0	389	4	US-09-327-357-77	Sequence 77, Appl	Sequence 77, Appl	8	100.0	400	4	US-08-956-171E-4029	Sequence 4029, Ap
1124	8	100.0	389	4	US-09-786-454A-9	Sequence 9, Appl	Sequence 9, Appl	8	100.0	400	4	US-08-956-171E-4031	Sequence 4031, Ap
1125	8	100.0	390	1	US-08-485-455D-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-08-956-171E-4067	Sequence 4067, Ap
1126	8	100.0	390	2	US-08-482-130C-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-08-956-171E-4198	Sequence 4198, Ap
1127	8	100.0	390	2	US-08-484-211C-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-09-621-976-3707	Sequence 3707, Ap
1128	8	100.0	390	3	US-08-306-769-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-09-621-976-3805	Sequence 3805, Ap
1129	8	100.0	390	3	US-08-306-616-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-09-621-976-16175	Sequence 16175, A
1130	8	100.0	390	3	US-08-817-795-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-09-621-976-17543	Sequence 17543, A
1131	8	100.0	390	3	US-08-485-443B-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-09-621-976-18294	Sequence 18294, A
1132	8	100.0	390	3	US-08-639-075A-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	400	4	US-09-621-976-18142	Sequence 18142, A
1133	8	100.0	390	3	US-09-012-431-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	401	3	US-09-221-298-38	Sequence 38, Appl
1134	8	100.0	390	3	US-09-012-692-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	401	4	US-09-643-597-182	Sequence 182, App
1135	8	100.0	390	3	US-08-905-223-71	Sequence 71, Appl	Sequence 71, Appl	8	100.0	401	4	US-09-480-884A-182	Sequence 182, App
1136	8	100.0	390	3	US-08-905-223-98	Sequence 98, Appl	Sequence 98, Appl	8	100.0	401	4	US-09-543-615A-182	Sequence 182, App
1137	8	100.0	390	3	US-08-906-613-66	Sequence 66, Appl	Sequence 66, Appl	8	100.0	401	4	US-09-606-421B-182	Sequence 182, App
1138	8	100.0	390	4	US-09-389-681-276	Sequence 276, Appl	Sequence 276, Appl	8	100.0	401	4	US-08-956-171E-3731	Sequence 3731, Ap
1139	8	100.0	390	4	US-09-620-405B-276	Sequence 276, Appl	Sequence 276, Appl	8	100.0	401	4	US-09-401-064-38	Sequence 38, Appl
1140	8	100.0	390	4	US-09-339-338-276	Sequence 276, Appl	Sequence 276, Appl	8	100.0	401	4	US-09-621-976-3180	Sequence 3180, Ap
1141	8	100.0	390	4	US-09-433-826B-276	Sequence 276, Appl	Sequence 276, Appl	8	100.0	401	4	US-09-621-976-11074	Sequence 11074, A
1142	8	100.0	390	4	US-09-604-287A-276	Sequence 276, Appl	Sequence 276, Appl	8	100.0	401	4	US-09-833-381-209	Sequence 209, App
1143	8	100.0	390	4	US-09-489-039A-3540	Sequence 3540, Ap	Sequence 3540, Ap	8	100.0	402	1	US-08-370-975B-4	Sequence 4, Appl
1144	8	100.0	390	4	US-09-134-000C-410	Sequence 410, App	Sequence 410, App	8	100.0	402	4	US-09-322-409-83	Sequence 83, Appl
1145	8	100.0	390	4	US-09-736-457-188	Sequence 188, App	Sequence 188, App	8	100.0	402	4	US-09-322-409-84	Sequence 84, Appl
1146	8	100.0	390	4	US-09-671-325-188	Sequence 188, App	Sequence 188, App	8	100.0	402	4	US-09-451-527-83	Sequence 83, Appl
1147	8	100.0	394	4	US-09-589-184-188	Sequence 188, App	Sequence 188, App	8	100.0	402	4	US-09-451-527-84	Sequence 84, Appl
1148	8	100.0	394	4	US-09-702-705-188	Sequence 188, App	Sequence 188, App	8	100.0	403	4	US-09-401-064-293	Sequence 293, App
1149	8	100.0	394	4	US-09-614-124B-188	Sequence 188, App	Sequence 188, App	8	100.0	403	4	US-09-401-064-322	Sequence 322, App
1150	8	100.0	394	4	US-09-671-325-188	Sequence 188, App	Sequence 188, App	8	100.0	403	4	US-09-401-064-358	Sequence 358, App
1151	8	100.0	394	4	US-09-589-184-188	Sequence 188, App	Sequence 188, App	8	100.0	404	4	US-09-643-597-282	Sequence 282, App
1152	8	100.0	394	4	US-09-589-184-188	Sequence 188, App	Sequence 188, App	8	100.0	404	4	US-09-643-597-282	Sequence 282, App
1153	8	100.0	395	4	US-09-453-702B-169	Sequence 169, App	Sequence 169, App	8	100.0	404	4	US-09-702-705-1558	Sequence 1558, Ap
1154	8	100.0	395	4	US-09-712-016-10	Sequence 10, Appl	Sequence 10, Appl	8	100.0	404	4	US-09-736-457-1558	Sequence 1558, Ap
1155	8	100.0	396	1	US-08-385-590A-1	Sequence 1, Appl	Sequence 1, Appl	8	100.0	404	4	US-09-542-615A-282	Sequence 282, App
1156	8	100.0	396	3	US-09-021-520-1	Sequence 1, Appl	Sequence 1, Appl	8	100.0	404	4	US-09-606-421B-282	Sequence 282, App
1157	8	100.0	396	3	US-08-444-818-51	Sequence 51, Appl	Sequence 51, Appl	8	100.0	404	4	US-09-614-124B-1558	Sequence 1558, Ap
1158	8	100.0	396	4	US-09-107-532A-2713	Sequence 2713, Ap	Sequence 2713, Ap	8	100.0	404	4	US-09-621-976-1578	Sequence 1578, Ap
1159	8	100.0	396	4	US-09-640-173-148	Sequence 148, App	Sequence 148, App	8	100.0	404	4	US-09-327-983-1	Sequence 1, Appl
1160	8	100.0	396	4	US-09-713-550-148	Sequence 148, App	Sequence 148, App	8	100.0	404	4	US-09-327-983-1576	Sequence 1576, Ap
1161	8	100.0	397	4	US-09-280-116-149	Sequence 149, App	Sequence 149, App	8	100.0	405	3	US-09-328-111-195	Sequence 195, App
1162	8	100.0	397	4	US-09-215-450-3	Sequence 3, Appl	Sequence 3, Appl	8	100.0	405	4	US-09-199-637A-242	Sequence 242, App
1163	8	100.0	397	4	US-09-621-976-10275	Sequence 10275, A	Sequence 10275, A	8	100.0	405	4	US-09-495-050A-213	Sequence 213, App
1164	8	100.0	399	3	US-08-963-168C-5	Sequence 5, Appl	Sequence 5, Appl	8	100.0	405	4	US-09-371-615A-1	Sequence 1, Appl
1165	8	100.0	399	3	US-09-020-956-136	Sequence 136, App	Sequence 136, App	8	100.0	405	4	US-09-328-352-1576	Sequence 1576, Ap
1166	8	100.0	399	3	US-09-030-607-136	Sequence 136, App	Sequence 136, App	8	100.0	405	4	US-09-327-983-1	Sequence 1, Appl
1167	8	100.0	399	4	US-09-439-313-136	Sequence 136, App	Sequence 136, App	8	100.0	405	4	US-09-621-976-17857	Sequence 17857, A
1168	8	100.0	399	4	US-09-134-001C-1372	Sequence 1372, Ap	Sequence 1372, Ap	8	100.0	406	3	US-08-944-483-6	Sequence 6, Appl
1169	8	100.0	399	4	US-09-134-001C-2057	Sequence 2057, Ap	Sequence 2057, Ap	8	100.0	406	4	US-09-621-976-18042	Sequence 18042, A
1170	8	100.0	399	4	US-09-352-616A-136	Sequence 136, App	Sequence 136, App	8	100.0	407	4	US-09-016-434-1485	Sequence 1485, Ap
1171	8	100.0	399	4	US-09-232-149A-136	Sequence 136, App	Sequence 136, App	8	100.0	407	4	US-09-621-976-10889	Sequence 10889, A
1172	8	100.0	399	4	US-09-252-991A-5390	Sequence 5390, App	Sequence 5390, App	8	100.0	408	4	US-09-025-769B-169	Sequence 169, App
1173	8	100.0	399	4	US-09-159-812-136	Sequence 136, App	Sequence 136, App	8	100.0	408	4	US-09-134-001C-2447	Sequence 2447, Ap
1174	8	100.0	399	4	US-09-636-215-136	Sequence 136, App	Sequence 136, App	8	100.0	408	4	US-09-489-039A-582	Sequence 582, App
1175	8	100.0	399	4	US-09-685-166A-136	Sequence 136, App	Sequence 136, App	8	100.0	408	4	US-09-489-039A-582	Sequence 582, App
1176	8	100.0	399	4	US-09-621-976-16635	Sequence 16635, A	Sequence 16635, A	8	100.0	408	4	US-09-621-976-8812	Sequence 8812, Ap
1177	8	100.0	399	4	US-09-115-453-136	Sequence 136, App	Sequence 136, App	8	100.0	409	4	US-09-702-705-1109	Sequence 1109, Ap
1178	8	100.0	399	4	US-09-688-489-136	Sequence 136, App	Sequence 136, App	8	100.0	409	4	US-09-736-457-1109	Sequence 1109, Ap
1179	8	100.0	400	4	US-08-956-171E-2958	Sequence 2958, Ap	Sequence 2958, Ap	8	100.0	409	4	US-09-614-124B-1109	Sequence 1109, Ap
1180	8	100.0	400	4	US-08-956-171E-3542	Sequence 3542, Ap	Sequence 3542, Ap	8	100.0	409	4	US-09-671-325-1109	Sequence 1109, Ap
1181	8	100.0	400	4	US-08-956-171E-3611	Sequence 3611, Ap	Sequence 3611, Ap	8	100.0	410	4	US-09-621-976-2489	Sequence 2489, Ap
1182	8	100.0	400	4	US-08-956-171E-3624	Sequence 3624, Ap	Sequence 3624, Ap	8	100.0	410	4	US-09-621-976-9544	Sequence 9544, Ap
1183	8	100.0	400	4	US-08-956-171E-3631	Sequence 3631, Ap	Sequence 3631, Ap	8	100.0	410	4	US-09-621-976-14249	Sequence 14249, A
1184	8	100.0	400	4	US-08-956-171E-3634	Sequence 3634, Ap	Sequence 3634, Ap	8	100.0	411	4	US-09-404-879A-154	Sequence 154, App
1185	8	100.0	400	4	US-08-956-171E-3660	Sequence 3660, Ap	Sequence 3660, Ap	8	100.0	411	4	US-09-338-933-154	Sequence 154, App
1186	8	100.0	400	4	US-08-956-171E-3675	Sequence 3675, Ap	Sequence 3675, Ap	8	100.0	411	4	US-09-215-681-154	Sequence 154, App
1187	8	100.0	400	4	US-08-956-171E-3728	Sequence 3728, Ap	Sequence 3728, Ap	8	100.0	411	4	US-09-328-352-993	Sequence 993, App
1188	8	100.0	400	4	US-08-956-171E-3738	Sequence 3738, Ap	Sequence 3738, Ap	8	100.0	411	4	US-08-956-171E-4353	Sequence 4353, App
1189	8	100.0	400	4	US-08-956-171E-3742	Sequence 3742, Ap	Sequence 3742, Ap	8	100.0	412	2	US-09-216-003A-154	Sequence 154, App
1190	8	100.0	400	4	US-08-956-171E-3744	Sequence 3744, Ap	Sequence 3744, Ap	8	100.0	412	2	US-08-807-043-2	Sequence 2, Appl
1191	8	100.0	400	4	US-08-956-171E-3793	Sequence 3793, Ap	Sequence 3793, Ap	8	100.0	412	2	US-09-127-289-2	Sequence 2, Appl
1192	8	100.0	400	4	US-08-956-171E-3822	Sequence 3822, Ap	Sequence 3822, Ap	8	100.0	412	3	US-09-018-584A-22	Sequence 22, Appl
1193	8	100.0	400	4	US-08-956-171E-3837	Sequence 3837, Ap	Sequence 3837, Ap	8	100.0	412	4	US-09-702-705-891	Sequence 891, App
1194	8	100.0	400	4	US-08-956-171E-3939	Sequence 3939, Ap	Sequence 3939, Ap	8	100.0	412	4	US-09-736-457-8261	Sequence 8261, App
1195	8	100.0	400	4	US-08-956-171E-4013	Sequence 4013, Ap	Sequence 4013, Ap	8	100.0	412	4	US-09-393-448-2	Sequence 2, Appl



c1269	8	100.0	412	4	US-09-614-124B-891	Sequence 891, App	1342	8	100.0	424	4	US-09-636-215-435	Sequence 435, App
c1270	8	100.0	412	4	US-09-621-976-10995	Sequence 10995, A	1343	8	100.0	424	4	US-09-685-166A-435	Sequence 435, App
c1271	8	100.0	412	4	US-09-621-976-18424	Sequence 18424, A	c1344	8	100.0	425	4	US-09-621-976-8306	Sequence 8306, App
c1272	8	100.0	412	4	US-09-621-976-18898	Sequence 18898, A	1345	8	100.0	425	4	US-09-621-976-9337	Sequence 9337, App
c1273	8	100.0	412	4	US-09-671-325-891	Sequence 891, App	1346	8	100.0	425	4	US-09-621-976-18541	Sequence 18541, A
c1274	8	100.0	413	3	US-09-328-111-25	Sequence 25, App	c1347	8	100.0	426	3	US-09-157-177-109	Sequence 109, App
c1275	8	100.0	413	4	US-09-621-976-9421	Sequence 9421, App	c1348	8	100.0	426	4	US-09-671-317-136	Sequence 136, App
c1276	8	100.0	414	4	US-08-576-202-34	Sequence 34, App	c1349	8	100.0	426	4	US-09-671-317-137	Sequence 137, App
c1277	8	100.0	414	4	US-09-489-039A-87	Sequence 87, App	c1350	8	100.0	426	4	US-09-671-317-138	Sequence 138, App
c1278	8	100.0	414	4	US-09-489-039A-4044	Sequence 4044, App	c1351	8	100.0	426	4	US-09-671-317-139	Sequence 139, App
c1279	8	100.0	414	4	US-09-621-976-3317	Sequence 3317, App	c1352	8	100.0	426	4	US-09-328-352-3115	Sequence 3115, App
c1280	8	100.0	414	4	US-09-621-976-18465	Sequence 18465, A	c1353	8	100.0	426	4	US-09-489-039A-4744	Sequence 4744, App
c1281	8	100.0	414	5	PCT-US95-16766-34	Sequence 34, App	1354	8	100.0	427	4	US-09-621-976-10373	Sequence 10373, A
c1282	8	100.0	415	3	US-08-532-896-27	Sequence 27, App	1355	8	100.0	428	3	US-09-456-830-32	Sequence 32, App
c1283	8	100.0	416	4	US-09-690-454-38	Sequence 38, App	1356	8	100.0	428	3	US-09-456-830-48	Sequence 48, App
c1284	8	100.0	416	4	US-09-621-976-15171	Sequence 15171, A	1357	8	100.0	428	3	US-09-456-830-60	Sequence 60, App
c1285	8	100.0	417	3	US-08-586-039B-36	Sequence 36, App	c1358	8	100.0	428	3	US-09-221-288-71	Sequence 71, App
c1286	8	100.0	417	4	US-09-699-769-36	Sequence 36, App	c1359	8	100.0	428	4	US-09-002-285-32	Sequence 32, App
c1287	8	100.0	417	4	US-09-134-000C-3312	Sequence 3312, App	1360	8	100.0	428	4	US-09-002-285-48	Sequence 48, App
c1288	8	100.0	417	4	US-09-621-976-74	Sequence 74, App	1361	8	100.0	428	4	US-09-002-285-60	Sequence 60, App
c1289	8	100.0	417	4	US-09-621-976-1344	Sequence 1344, App	c1362	8	100.0	428	4	US-09-397-787-247	Sequence 247, App
c1290	8	100.0	418	4	US-09-621-976-13982	Sequence 13982, A	c1363	8	100.0	428	4	US-09-216-931B-23	Sequence 23, App
c1291	8	100.0	418	4	US-09-671-317-107	Sequence 107, App	1364	8	100.0	428	4	US-09-589-477-32	Sequence 32, App
c1292	8	100.0	418	4	US-09-671-317-108	Sequence 108, App	1365	8	100.0	428	4	US-09-589-477-48	Sequence 48, App
c1293	8	100.0	418	4	US-09-621-976-16177	Sequence 16177, A	1366	8	100.0	428	4	US-09-589-477-60	Sequence 60, App
c1294	8	100.0	419	3	US-08-905-223-237	Sequence 237, App	1367	8	100.0	428	4	US-09-598-401C-50	Sequence 50, App
c1295	8	100.0	419	4	US-09-118-554-13	Sequence 13, App	c1368	8	100.0	428	4	US-09-401-064-71	Sequence 71, App
c1296	8	100.0	419	4	US-09-118-627-13	Sequence 13, App	1369	8	100.0	428	4	US-09-621-976-2127	Sequence 2127, App
c1297	8	100.0	419	4	US-09-602-877A-13	Sequence 13, App	c1370	8	100.0	428	4	US-09-833-381-1465	Sequence 1465, App
c1298	8	100.0	420	4	US-09-641-638-65	Sequence 65, App	c1371	8	100.0	428	4	US-09-833-381-1470	Sequence 1470, App
c1299	8	100.0	420	4	US-09-641-638-416	Sequence 416, App	c1372	8	100.0	429	4	US-09-397-787-243	Sequence 243, App
c1300	8	100.0	420	4	US-09-641-638-418	Sequence 418, App	1373	8	100.0	429	4	US-09-401-064-336	Sequence 336, App
c1301	8	100.0	420	4	US-09-702-705-433	Sequence 433, App	1374	8	100.0	429	4	US-09-621-976-9789	Sequence 9789, App
c1302	8	100.0	420	4	US-09-736-405-433	Sequence 433, App	1375	8	100.0	429	4	US-09-621-976-9906	Sequence 9906, App
c1303	8	100.0	420	4	US-09-134-000C-1172	Sequence 1172, App	c1376	8	100.0	430	2	US-08-687-080-88	Sequence 88, App
c1304	8	100.0	420	4	US-09-614-124B-433	Sequence 433, App	c1377	8	100.0	430	4	US-09-621-976-8470	Sequence 8470, App
c1305	8	100.0	420	4	US-09-621-976-75	Sequence 75, App	1378	8	100.0	431	2	US-08-691-814B-84	Sequence 84, App
c1306	8	100.0	420	4	US-09-621-976-13801	Sequence 13801, A	c1379	8	100.0	431	4	US-09-621-976-8714	Sequence 8714, App
c1307	8	100.0	420	4	US-09-621-976-17879	Sequence 17879, A	c1380	8	100.0	432	4	US-09-313-294A-4878	Sequence 4878, App
c1308	8	100.0	420	4	US-09-671-325-433	Sequence 433, App	1381	8	100.0	432	4	US-09-252-991A-5	Sequence 5, App
c1309	8	100.0	420	4	US-09-540-236-1284	Sequence 1284, App	c1382	8	100.0	432	4	US-09-543-681A-2927	Sequence 2927, App
c1310	8	100.0	420	4	US-09-589-184-433	Sequence 433, App	1383	8	100.0	432	4	US-09-621-976-14450	Sequence 14450, A
c1311	8	100.0	421	3	US-08-836-561-62	Sequence 62, App	c1384	8	100.0	433	4	US-09-621-976-14453	Sequence 14453, A
c1312	8	100.0	421	3	US-08-836-561-73	Sequence 73, App	1385	8	100.0	434	2	US-08-332-766A-10	Sequence 10, App
c1313	8	100.0	421	3	US-08-836-561-77	Sequence 77, App	1386	8	100.0	434	3	US-08-513-974B-345	Sequence 345, App
c1314	8	100.0	421	4	US-09-222-575-116	Sequence 116, App	c1387	8	100.0	434	3	US-09-118-442-27	Sequence 27, App
c1315	8	100.0	421	4	US-09-404-879A-120	Sequence 120, App	c1388	8	100.0	434	3	US-09-677-064-27	Sequence 27, App
c1316	8	100.0	421	4	US-09-338-933-120	Sequence 120, App	c1389	8	100.0	434	3	US-09-370-838-68	Sequence 68, App
c1317	8	100.0	421	4	US-09-702-705-415	Sequence 415, App	1390	8	100.0	435	3	US-08-692-922-3	Sequence 3, App
c1318	8	100.0	421	4	US-09-736-457-415	Sequence 415, App	1391	8	100.0	435	4	US-09-621-976-9424	Sequence 9424, App
c1319	8	100.0	421	4	US-09-389-681-116	Sequence 116, App	c1392	8	100.0	436	4	US-09-397-787-288	Sequence 288, App
c1320	8	100.0	421	4	US-09-620-405B-116	Sequence 116, App	1393	8	100.0	436	4	US-09-918-686-24	Sequence 24, App
c1321	8	100.0	421	4	US-09-215-681-120	Sequence 120, App	1394	8	100.0	437	3	US-09-385-982-444	Sequence 444, App
c1322	8	100.0	421	4	US-09-434-122-62	Sequence 62, App	1395	8	100.0	437	4	US-08-621-976-10136	Sequence 10136, A
c1323	8	100.0	421	4	US-09-434-122-73	Sequence 73, App	c1396	8	100.0	438	4	US-08-452-228-2	Sequence 2, App
c1324	8	100.0	421	4	US-09-434-122-77	Sequence 77, App	c1397	8	100.0	438	4	US-09-328-352-3663	Sequence 3663, App
c1325	8	100.0	421	4	US-09-339-338-116	Sequence 116, App	1398	8	100.0	438	4	US-09-636-399A-9	Sequence 9, App
c1326	8	100.0	421	4	US-09-433-826B-116	Sequence 116, App	c1399	8	100.0	438	4	US-09-621-976-1841	Sequence 1841, App
c1327	8	100.0	421	4	US-09-604-287A-116	Sequence 116, App	1400	8	100.0	438	4	US-09-621-976-3142	Sequence 3142, App
c1328	8	100.0	421	4	US-09-285-480-116	Sequence 116, App	c1401	8	100.0	438	4	US-09-621-976-3142	Sequence 3142, App
c1329	8	100.0	421	4	US-09-401-064-151	Sequence 151, App	c1402	8	100.0	438	4	US-09-621-976-10280	Sequence 10280, A
c1330	8	100.0	421	4	US-09-401-064-195	Sequence 195, App	c1403	8	100.0	438	4	US-09-621-976-18843	Sequence 18843, A
c1331	8	100.0	421	4	US-09-614-124B-415	Sequence 415, App	1404	8	100.0	438	5	PCT-US96-07329-1	Sequence 1, App
c1332	8	100.0	421	4	US-09-671-325-415	Sequence 415, App	1405	8	100.0	439	4	US-09-222-575-172	Sequence 172, App
c1333	8	100.0	421	4	US-09-216-003A-120	Sequence 120, App	1406	8	100.0	439	4	US-09-389-681-172	Sequence 172, App
c1334	8	100.0	421	4	US-09-834-759-116	Sequence 116, App	1407	8	100.0	439	4	US-09-620-405B-172	Sequence 172, App
c1335	8	100.0	421	4	US-09-589-184-415	Sequence 415, App	c1408	8	100.0	439	4	US-09-339-338-172	Sequence 339-338-172
c1336	8	100.0	422	4	US-09-621-976-16596	Sequence 16596, A	1409	8	100.0	439	4	US-09-433-826B-172	Sequence 172, App
c1337	8	100.0	423	4	US-09-328-352-3580	Sequence 3580, App	1410	8	100.0	439	4	US-09-604-287A-172	Sequence 172, App
c1338	8	100.0	423	4	US-09-621-976-15739	Sequence 15739, A	1411	8	100.0	439	4	US-09-285-480-172	Sequence 172, App
c1339	8	100.0	423	4	US-09-833-381-1815	Sequence 1815, App	1412	8	100.0	439	4	US-09-621-976-11143	Sequence 11143, A
c1340	8	100.0	424	4	US-09-439-313-435	Sequence 435, App	c1413	8	100.0	439	4	US-09-621-976-11143	Sequence 11143, A
c1341	8	100.0	424	4	US-09-352-616A-435	Sequence 435, App	c1414	8	100.0	439	4	US-09-621-976-14181	Sequence 14181, A

1415	8	100.0	439	4	US-09-834-759-172	Sequence 172, App	1488	8	100.0	451	4	US-09-621-976-1774	Sequence 1774, Ap
1416	8	100.0	440	4	US-09-118-554-45	Sequence 45, Appl	1489	8	100.0	451	4	US-09-621-976-2443	Sequence 2443, Ap
1417	8	100.0	440	4	US-09-118-627-45	Sequence 45, Appl	1490	8	100.0	451	4	US-09-621-976-2495	Sequence 2495, Ap
1418	8	100.0	440	4	US-09-602-877A-45	Sequence 45, Appl	1491	8	100.0	451	4	US-09-621-976-2738	Sequence 2738, Ap
1419	8	100.0	440	4	US-09-879-027-6	Sequence 6, Appl	1492	8	100.0	451	4	US-09-621-976-3183	Sequence 3183, Ap
1420	8	100.0	440	4	US-09-397-787-311	Sequence 311, Appl	1493	8	100.0	451	4	US-09-833-381-1462	Sequence 1462, Ap
1421	8	100.0	440	4	US-09-621-976-10834	Sequence 10834, A	1494	8	100.0	451	4	US-09-833-381-1467	Sequence 1467, Ap
1422	8	100.0	441	4	US-08-914-375C-49	Sequence 49, Appl	1495	8	100.0	452	4	US-09-582-200A-7	Sequence 7, Appl
1423	8	100.0	441	4	US-08-914-375C-51	Sequence 51, Appl	1496	8	100.0	452	4	US-09-621-976-18546	Sequence 18546, A
1424	8	100.0	441	4	US-08-914-375C-52	Sequence 52, Appl	1497	8	100.0	453	4	US-09-486-580A-2	Sequence 2, Appl
1425	8	100.0	441	4	US-08-914-375C-53	Sequence 53, Appl	1498	8	100.0	453	4	US-09-252-991A-8574	Sequence 8574, Ap
1426	8	100.0	441	4	US-09-328-352-780	Sequence 780, App	1499	8	100.0	453	4	US-09-328-352-3680	Sequence 3680, Ap
1427	8	100.0	441	4	US-09-621-976-16284	Sequence 16284, A	1500	8	100.0	453	4	US-09-621-976-3441	Sequence 3441, Ap
1428	8	100.0	442	4	US-09-397-787-256	Sequence 256, App							
1429	8	100.0	442	4	US-09-621-976-15368	Sequence 15368, A							
1430	8	100.0	443	4	US-09-397-787-201	Sequence 201, App							
1431	8	100.0	444	4	US-09-582-337-5	Sequence 5, Appl							
1432	8	100.0	444	4	US-09-489-039A-3299	Sequence 3299, Ap							
1433	8	100.0	444	4	US-09-134-000C-711	Sequence 711, App							
1434	8	100.0	444	4	US-09-621-976-3188	Sequence 3188, Ap							
1435	8	100.0	444	4	US-09-621-976-3311	Sequence 3311, Ap							
1436	8	100.0	444	4	US-09-621-976-13324	Sequence 13234, A							
1437	8	100.0	444	4	US-09-621-976-14064	Sequence 14064, A							
1438	8	100.0	444	4	US-09-621-976-14692	Sequence 14692, A							
1439	8	100.0	444	4	US-09-621-976-15355	Sequence 15355, A							
1440	8	100.0	444	4	US-09-540-236-186	Sequence 186, App							
1441	8	100.0	445	3	US-09-376-781-7	Sequence 7, Appl							
1442	8	100.0	445	4	US-09-702-705-458	Sequence 458, App							
1443	8	100.0	445	4	US-09-736-457-458	Sequence 458, App							
1444	8	100.0	445	4	US-09-614-124B-458	Sequence 458, App							
1445	8	100.0	445	4	US-09-621-976-12533	Sequence 12533, A							
1446	8	100.0	445	4	US-09-671-325-458	Sequence 458, App							
1447	8	100.0	445	4	US-09-589-184-458	Sequence 458, App							
1448	8	100.0	446	4	US-09-641-638-500	Sequence 500, App							
1449	8	100.0	446	4	US-09-671-317-103	Sequence 103, App							
1450	8	100.0	446	4	US-09-671-317-104	Sequence 104, App							
1451	8	100.0	446	4	US-09-671-317-105	Sequence 105, App							
1452	8	100.0	446	4	US-09-621-976-10841	Sequence 10841, A							
1453	8	100.0	447	1	US-08-253-155A-22	Sequence 22, Appl							
1454	8	100.0	447	1	US-08-246-855A-6	Sequence 6, Appl							
1455	8	100.0	447	3	US-09-081-320-24	Sequence 24, Appl							
1456	8	100.0	447	3	US-08-943-731-137	Sequence 137, App							
1457	8	100.0	447	4	US-09-574-141A-24	Sequence 24, Appl							
1458	8	100.0	447	4	US-09-707-780-24	Sequence 24, Appl							
1459	8	100.0	447	4	US-09-702-705-646	Sequence 646, App							
1460	8	100.0	447	4	US-09-736-457-646	Sequence 646, App							
1461	8	100.0	447	4	US-09-252-991A-6289	Sequence 6289, Ap							
1462	8	100.0	447	4	US-09-614-124B-646	Sequence 646, App							
1463	8	100.0	447	4	US-09-621-976-10800	Sequence 10800, A							
1464	8	100.0	447	4	US-09-671-325-646	Sequence 646, App							
1465	8	100.0	447	4	US-09-589-184-646	Sequence 646, App							
1466	8	100.0	447	5	PCT-US95-06356-6	Sequence 6, Appl							
1467	8	100.0	448	4	US-09-149-476-234	Sequence 234, App							
1468	8	100.0	448	4	US-09-621-976-1871	Sequence 1871, Ap							
1469	8	100.0	448	4	US-09-976-594-697	Sequence 697, App							
1470	8	100.0	448	3	US-08-946-914-35	Sequence 35, Appl							
1471	8	100.0	449	3	US-08-688-908-3	Sequence 3, Appl							
1472	8	100.0	449	4	US-09-439-261-38	Sequence 38, Appl							
1473	8	100.0	449	4	US-09-227-613-37	Sequence 37, Appl							
1474	8	100.0	449	4	US-09-370-838-9	Sequence 9, Appl							
1475	8	100.0	449	4	US-09-656-450-35	Sequence 35, Appl							
1476	8	100.0	449	4	US-09-621-976-11145	Sequence 11145, A							
1477	8	100.0	449	4	US-09-621-976-18128	Sequence 18128, A							
1478	8	100.0	450	2	US-08-345-321-5	Sequence 5, Appl							
1479	8	100.0	450	4	US-09-235-451-11	Sequence 11, Appl							
1480	8	100.0	450	4	US-09-489-039A-4656	Sequence 4656, Ap							
1481	8	100.0	450	4	US-09-621-976-12523	Sequence 12523, A							
1482	8	100.0	450	4	US-09-621-976-13924	Sequence 13924, A							
1483	8	100.0	450	4	US-09-621-976-18528	Sequence 18528, A							
1484	8	100.0	450	4	US-09-621-976-18594	Sequence 18594, A							
1485	8	100.0	450	4	US-09-833-381-1960	Sequence 1960, Ap							
1486	8	100.0	450	4	US-09-976-594-1094	Sequence 1094, Ap							
1487	8	100.0	451	3	US-09-385-982-55	Sequence 55, Appl							

ALIGNMENTS

RESULT 1  
US-08-859-954-496  
; Sequence 496, Application US/08859954  
; Patent No 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 496:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHEICAL: YES  
; ANTI-SENSE: YES  
; US-08-859-954-496

Query Match 100.0%; Score 8; DB 3; Length 8;  
Best Local Similarity 100.0%; Pred. No. 6.5e+07;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TCTGCTT 8  
|||||||



Db 1 TCTGCCTT 8

RESULT 2

US-09-989-789-2179/c

; Sequence 2179, Application US/09989789

; Patent No. 6588746

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2179

; LENGTH: 9

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example target

; OTHER INFORMATION: DNA

US-09-989-789-2179

Query Match 100.0%; Score 8; DB 4; Length 9;

Best Local Similarity 100.0%; Pred. No. 5.8e+07;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGCCTT 8

Db 8 TCTGCCTT 1

RESULT 3

US-09-989-789-2180/c

; Sequence 2180, Application US/09989789

; Patent No. 6588746

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2180

; LENGTH: 9

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example target

; OTHER INFORMATION: DNA

US-09-989-789-2180

Query Match 100.0%; Score 8; DB 4; Length 9;

Best Local Similarity 100.0%; Pred. No. 5.8e+07;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGCCTT 8

Db 8 TCTGCCTT 1

RESULT 4

US-09-049-190-15

; Sequence 15, Application US/09049190

; Patent No. 6190866

; GENERAL INFORMATION:

; APPLICANT: Nielsen et al.

; TITLE OF INVENTION: Peptide Nucleic Acids Having

; TITLE OF INVENTION: Antibacterial Activity

; NUMBER OF SEQUENCES: 20

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz

; STREET: One Liberty Place - 46th Floor

; CITY: Philadelphia

; STATE: PA

; COUNTRY: U.S.A.

; ZIP: 19103

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5 inch disk, 1.44 Mb

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WordPerfect 6.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/049,190

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: John W. Caldwell

; REGISTRATION NUMBER: 28,937

; REFERENCE/DOCKET NUMBER: ISIS-2560

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 215-568-3100

; TELEFAX: 215-568-3439

; INFORMATION FOR SEQ ID NO: 15:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 12 bases

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 1

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 2

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 3

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 4

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 5

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 6

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 7

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 8

; OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine

; OTHER INFORMATION: backbone

FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 9  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 10  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 11  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 12  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
US-09-049-190-15

Query Match 100.0%; Score 8; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 7.4e+03;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGCCTT 8  
DB 2 TCTGCCTT 9

RESULT 5  
US-08-932-140C-15  
Sequence 15, Application US/08932140C  
Patent No. 6300318  
GENERAL INFORMATION:  
APPLICANT: Nielsen et al.  
TITLE OF INVENTION: Peptide Nucleic Acids Having  
TITLE OF INVENTION: Antibacterial Activity  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &  
ADDRESSEE: No. 6300318ris LLP  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: U.S.A.  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/932,140C  
FILING DATE: September 16, 1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: John W. Caldwell  
REGISTRATION NUMBER: 28,937  
REFERENCE/DOCKET NUMBER: ISIS-2560  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-568-3100  
TELEFAX: 215-568-3439  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 1  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 2  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 3  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 4  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 5  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 6  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 7  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 8  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 9  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 10  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 11  
OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine  
OTHER INFORMATION: backbone  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 12  
OTHER INFORMATION: N-[acetyl(2-aminoethyl))-C-  
OTHER INFORMATION: lysine-glycine backbone  
US-08-932-140C-15

Query Match 100.0%; Score 8; DB 4; Length 12;  
Best Local Similarity 100.0%; Pred. No. 7.4e+03;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTGCCTT 8  
DB 2 TCTGCCTT 9

RESULT 6  
US-08-985-162-1864

/ Sequence 1864, Application US/08985162  
/ Patent No. 6057156

## / GENERAL INFORMATION:

/ APPLICANT: Akhtar, Saghir

/ APPLICANT: Pell, Patricia

/ APPLICANT: McSwiggen, James

/ TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT

/ TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED

/ TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH

/ TITLE OF INVENTION: FACTOR RECEPTORS

/ NUMBER OF SEQUENCES: 1877

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Lyon &amp; Lyon

/ STREET: 633 West Fifth Street

/ CITY: Los Angeles

/ STATE: California

/ COUNTRY: U.S.A.

/ ZIP: 90071-2066

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

/ MEDIUM TYPE: storage

/ COMPUTER: IBM Compatible

/ OPERATING SYSTEM: IBM P.C. DOS 5.0

/ SOFTWARE: FastSeq for Windows 2.0

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/985,162

/ FILING DATE: 04 December 1997

/ CLASSIFICATION: 514

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 60/036,476

/ FILING DATE: 31 January 1997

/ ATTORNEY/AGENT INFORMATION:

/ NAME: Warburg, Richard J.

/ REGISTRATION NUMBER: 32,327

/ REFERENCE/DOCKET NUMBER: 230/107

/ TELECOMMUNICATION INFORMATION:

/ TELEPHONE: (213) 489-1600

/ TELEFAX: (213) 955-0440

/ TELEX: 67-3510

/ INFORMATION FOR SEQ ID NO: 1864:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 14 base pairs

/ TYPE: nucleic acid

/ STRANDEDNESS: single

/ TOPOLOGY: linear

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/ STREET: Suite 4700  
/ CITY: Los Angeles  
/ STATE: California  
/ COUNTRY: U.S.A.

/ ZIP: 90071-2066

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

/ MEDIUM TYPE: storage

/ COMPUTER: IBM Compatible

/ OPERATING SYSTEM: IBM P.C. DOS 5.0

/ SOFTWARE: FastSeq for Windows 2.0

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/09/401,063

/ FILING DATE:

/ CLASSIFICATION:

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/985,162

/ FILING DATE: 04 December 1997

/ APPLICATION NUMBER: 60/036,476

/ FILING DATE: 31 January 1997

/ ATTORNEY/AGENT INFORMATION:

/ NAME: Warburg, Richard J.

/ REGISTRATION NUMBER: 32,327

/ REFERENCE/DOCKET NUMBER: 230/107

/ TELECOMMUNICATION INFORMATION:

/ TELEPHONE: (213) 489-1600

/ TELEFAX: (213) 955-0440

/ TELEX: 67-3510

/ INFORMATION FOR SEQ ID NO: 1864:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 14 base pairs

/ TYPE: nucleic acid

/ STRANDEDNESS: single

/ TOPOLOGY: linear

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/ Sequence 1864, Application US/08985162  
/ Patent No. 6057156

## / GENERAL INFORMATION:

/ APPLICANT: Akhtar, Saghir

/ APPLICANT: Pell, Patricia

/ APPLICANT: McSwiggen, James

/ TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT

/ TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED

/ TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH

/ TITLE OF INVENTION: FACTOR RECEPTORS

/ NUMBER OF SEQUENCES: 1877

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Lyon &amp; Lyon

/ STREET: 633 West Fifth Street

/ CITY: Los Angeles

/ STATE: California

/ COUNTRY: U.S.A.

/ ZIP: 90071-2066

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

/ MEDIUM TYPE: storage

/ COMPUTER: IBM Compatible

/ OPERATING SYSTEM: IBM P.C. DOS 5.0

/ SOFTWARE: FastSeq for Windows 2.0

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/985,162

/ FILING DATE: 04 December 1997

/ CLASSIFICATION: 514

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 60/036,476

/ FILING DATE: 31 January 1997

/ ATTORNEY/AGENT INFORMATION:

/ NAME: Warburg, Richard J.

/ REGISTRATION NUMBER: 32,327

/ REFERENCE/DOCKET NUMBER: 230/107

/ TELECOMMUNICATION INFORMATION:

/ TELEPHONE: (213) 489-1600

/ TELEFAX: (213) 955-0440

/ TELEX: 67-3510

/ INFORMATION FOR SEQ ID NO: 1864:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 14 base pairs

/ TYPE: nucleic acid

/ STRANDEDNESS: single

/ TOPOLOGY: linear

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/ STREET: Suite 4700  
/ CITY: Los Angeles  
/ STATE: California  
/ COUNTRY: U.S.A.

/ ZIP: 90071-2066

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

/ MEDIUM TYPE: storage

/ COMPUTER: IBM Compatible

/ OPERATING SYSTEM: IBM P.C. DOS 5.0

/ SOFTWARE: FastSeq for Windows 2.0

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/09/401,063

/ FILING DATE:

/ CLASSIFICATION:

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/985,162

/ FILING DATE: 04 December 1997

/ APPLICATION NUMBER: 60/036,476

/ FILING DATE: 31 January 1997

/ ATTORNEY/AGENT INFORMATION:

/ NAME: Warburg, Richard J.

/ REGISTRATION NUMBER: 32,327

/ REFERENCE/DOCKET NUMBER: 230/107

/ TELECOMMUNICATION INFORMATION:

/ TELEPHONE: (213) 489-1600

/ TELEFAX: (213) 955-0440

/ TELEX: 67-3510

/ INFORMATION FOR SEQ ID NO: 1864:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 14 base pairs

/ TYPE: nucleic acid

/ STRANDEDNESS: single

/ TOPOLOGY: linear

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/ Sequence 1864, Application US/08985162  
/ Patent No. 6057156

## / GENERAL INFORMATION:

/ APPLICANT: Akhtar, Saghir

/ APPLICANT: Pell, Patricia

/ APPLICANT: McSwiggen, James

/ TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT

/ TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED

/ TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH

/ TITLE OF INVENTION: FACTOR RECEPTORS

/ NUMBER OF SEQUENCES: 1877

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Lyon &amp; Lyon

/ STREET: 633 West Fifth Street

/ CITY: Los Angeles

/ STATE: California

/ COUNTRY: U.S.A.

/ ZIP: 90071-2066

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

/ MEDIUM TYPE: storage

/ COMPUTER: IBM Compatible

/ OPERATING SYSTEM: IBM P.C. DOS 5.0

/ SOFTWARE: FastSeq for Windows 2.0

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/985,162

/ FILING DATE: 04 December 1997

/ CLASSIFICATION: 514

/ PRIOR APPLICATION DATA:

SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/584,040  
FILING DATE: January 11, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/005,974  
FILING DATE: October 26, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/064  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 8486:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-584-040-8486  
Query Match 100.0%; Score 8; DB 4; Length 15;  
Best Local Similarity 50.0%; Pred. No. 7.5e+03;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TCTGCCTT 8  
DB 1 UCUGCCUU 14  
RESULT 9  
US-08-584-040-8498  
Sequence 8498, Application US/08584040  
Patent No. 6346398  
GENERAL INFORMATION:  
APPLICANT: Pavco, Pamela  
APPLICANT: McSwiggen, James  
APPLICANT: Stinchcomb, Dan T.  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TREATMENT OF DISEASES OR  
CONDITIONS RELATED TO LEVELS  
OF VASCULAR ENDOTHELIAL  
GROWTH FACTOR  
NUMBER OF SEQUENCES: 8502  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/584,040  
FILING DATE: January 11, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/005,974  
FILING DATE: October 26, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/064

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 8498:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-584-040-8498  
Query Match 100.0%; Score 8; DB 4; Length 15;  
Best Local Similarity 50.0%; Pred. No. 7.5e+03;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TCTGCCTT 8  
DB 7 UCUGCCUU 14  
RESULT 10  
US-09-371-772B-4140  
Sequence 4140, Application US/09371772B  
Patent No. 6566127  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions R  
FILE REFERENCE: MBH800.876-J (237/198)  
CURRENT APPLICATION NUMBER: US/09/371,772B  
CURRENT FILING DATE: 1999-08-10  
PRIOR APPLICATION NUMBER: US 60/005,974  
PRIOR FILING DATE: 1995-10-26  
PRIOR APPLICATION NUMBER: US 08/584,040  
PRIOR FILING DATE: 1996-01-08  
NUMBER OF SEQ ID NOS: 14225  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 4140  
LENGTH: 15  
TYPE: RNA  
ORGANISM: Mus sp.  
US-09-371-772B-4140  
Query Match 100.0%; Score 8; DB 4; Length 15;  
Best Local Similarity 50.0%; Pred. No. 7.5e+03;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TCTGCCTT 8  
DB 1 UCUGCCUU 8  
RESULT 11  
US-09-371-772B-4152  
Sequence 4152, Application US/09371772B  
Patent No. 6566127  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions F  
FILE REFERENCE: MBH800.876-J (237/198)  
CURRENT APPLICATION NUMBER: US/09/371,772B  
CURRENT FILING DATE: 1999-08-10  
PRIOR APPLICATION NUMBER: US 60/005,974

```

; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4152
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-4152

```

Query Match 100.0%; Score 8; DB 4; Length 15;  
Best Local Similarity 50.0%; pred. NO. 7.5e+03;  
Matches 4; Conservative 4; Mismatches 0; Indels

```

RESULT 12
US-09-371-772B-7046
; Sequence 7046, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for
; FILE REFERENCE: MEH00, 876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005, 974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7046
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-7046

```

Query Match 100.0%; Score 8; DB 4; Length 16;  
Best Local Similarity 50.0%; Pred. No. 7.5e+03;  
Matches 4; Conservative 4; Mismatches 0; Indels

```

RESULT 13
US-09-371-772B-7047
; Sequence 7047, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McGswiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for
; FILE REFERENCES: WEH800,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26

```

, PRIOR APPLICATION NUMBER.: US 09/584,040  
 , PRIOR FILING DATE: 1996-01-08  
 , NUMBER OF SEQ ID NOS: 14225  
 , SOFTWARE: PatentIn version 3.0  
 , SEQ ID NO: 7047  
 , LENGTH: 16  
 , TYPE: RNA  
 , ORGANISM: Homo sapiens  
 US-09-371-772B-7047

Query Match	100.0%;	Score 8;	DB 4;	Length 16;
Best Local Similarity	50.0%;	Pred. No. 7.5e+03;		
Matches	4;	Conservative	4;	Mismatches 0;
Indels	0;	Gaps	0;	

RESULT 14  
US-09-479-005A-508  
; Sequence 508, Application US/09479005A  
; Patent No. 6656731  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity  
; FILE REFERENCE: MBH00-884-C  
; CURRENT APPLICATION NUMBER: US/09/479,005A  
; CURRENT FILING DATE: 2000-01-07  
; PRIOR APPLICATION NUMBER: US 09/444,209  
; PRIOR FILING DATE: 1999-11-19  
; PRIOR APPLICATION NUMBER: US 09/159,274  
; PRIOR FILING DATE: 1998-09-22  
; PRIOR APPLICATION NUMBER: US 60/059,473  
; PRIOR FILING DATE: 1997-09-22  
; NUMBER OF SEQ ID NOS: 1208  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 508  
; LENGTH: 16  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-479-005A-508

Query Match	100.0%;	Score 8;	DB 4;	Length 16;
Best Local Similarity	50.0%;	Pred. No. 7.5e+03;		
Matches	4;	Conservative	4;	Mismatches 0;
Indels	0;	Gaps	0;	

RESULT 15  
US-08-985-163-691  
Sequence 691, Application US/08985162  
Patent No. 6057156  
GENERAL INFORMATION:  
APPLICANT: Akhtar, Saghir  
APPLICANT: Fell, Patricia  
APPLICANT: MCSwigen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

```
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,162
; FILING DATE: 04 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 691:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-985-162-691

Query Match 100.0%; Score:8; DB 3; Length 17;
Best Local Similarity 50.0%; Pred. NO. 7.5e+03;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGCCTT 8
Db 10 UCUGCCUU 17

Search completed: September 1, 2004, 02:35:17
Job time : 64.7333 secs
```



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 31, 2004, 20:45:32 ; Search time 80.8167 Seconds  
(without alignments)  
89.268 Million cell updates/sec

Title: US-09-869-098A-1\_COPY\_284\_296  
Perfect score: 13  
Sequence: 1 aggtcagaggact 13

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database : Issued Patents\_NA.\*  
1: /cgm2\_6/ptodata/2/ina/5A\_COMB.seq.\*  
2: /cgm2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgm2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgm2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgm2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgm2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	13	100.0	2368	2	US-08-520-933-1
2	13	100.0	2368	4	US-09-285-040-1
3	13	100.0	2368	6	5262177-1
4	13	100.0	4300	1	US-08-041-538-1
5	13	100.0	4300	1	US-08-463-642-1
6	13	100.0	4300	1	US-08-455-602-1
7	13	100.0	4300	2	US-08-465-157-1
8	13	100.0	4300	5	PCT-US91-09422-1
9	13	100.0	5236	3	PCT-US91-09422-16
10	13	100.0	48974	3	US-08-920-422-17
11	12	92.3	81	4	US-09-963-137-97
12	12	92.3	195	1	US-08-158-189-9
13	12	92.3	202	1	US-08-158-189-8
14	12	92.3	513	4	US-09-833-381-1978
15	12	92.3	541	4	US-09-404-879A-26
16	12	92.3	541	4	US-09-338-933-26
17	12	92.3	541	4	US-09-215-681-26
18	12	92.3	541	4	US-09-216-003A-26
19	12	92.3	748	2	US-08-933-750C-89
20	12	92.3	748	3	US-09-234-613-89
21	12	92.3	884	4	US-09-171-209-76
22	12	92.3	1011	2	US-08-676-279-52
23	12	92.3	1011	4	US-09-134-001C-738
24	12	92.3	1011	4	US-09-148-545-130
25	12	92.3	1026	3	US-09-134-246-4
26	12	92.3	1383	3	US-09-057-860A-7
27	12	92.3	1530	2	US-08-704-931-3
28	12	92.3	1777	2	US-08-937-466-5
29	12	92.3	1777	2	US-09-172-528-5
30	12	92.3	1777	2	US-09-318-199-5
31	12	92.3	1777	2	US-09-503-579-5
32	12	92.3	1949	2	US-08-937-466-3
33	12	92.3	1949	2	US-09-172-528-3
34	12	92.3	1949	3	US-09-318-199-3
35	12	92.3	1949	3	US-09-503-579-3
36	12	92.3	2126	4	US-09-833-381-1979
37	12	92.3	2225	3	US-09-276-531-109
38	12	92.3	2255	4	US-09-620-312D-108
39	12	92.3	2278	4	US-09-620-312D-1003
40	12	92.3	2278	4	US-09-148-545-78
41	12	92.3	2278	4	US-09-148-545-131
42	12	92.3	2349	4	US-09-620-312D-109
43	12	92.3	2494	4	US-09-724-864-6
44	12	92.3	2782	2	US-08-937-466-1
45	12	92.3	2782	2	US-09-172-528-1
46	12	92.3	2782	3	US-09-318-199-1
47	12	92.3	2782	3	US-09-503-579-1
48	12	92.3	3274	4	US-09-620-312D-4
49	12	92.3	3274	4	US-07-807-043B-9
50	12	92.3	4157	1	US-08-299-849B-9
51	12	92.3	4157	2	US-08-142-368A-9
52	12	92.3	4157	3	US-08-967-727-9
53	12	92.3	4157	3	US-08-037-230D-9
54	12	92.3	4157	3	US-09-583-850-9
55	12	92.3	4157	4	US-09-579-197-9
56	12	92.3	4157	4	US-09-404-026-9
57	12	92.3	4157	4	US-09-312-464-9
58	12	92.3	4559	3	US-09-056-105-5
59	12	92.3	5849	3	US-09-134-246-6
60	12	92.3	7393	4	US-09-620-312D-372
61	12	92.3	12047	2	US-09-022-461-1
62	12	92.3	12047	3	US-09-033-556-3
63	12	92.3	12047	4	US-09-474-599-11
64	12	92.3	12047	4	US-09-151-376-3
65	11.4	87.7	68	3	US-09-023-228B-120
66	11.4	87.7	68	4	US-09-163-025B-120
67	11.4	87.7	68	4	US-10-037-282-120
68	11.4	87.7	144	1	US-08-442-063-52
69	11.4	87.7	214	4	US-09-621-376-16814
70	11.4	87.7	237	4	US-09-603-552-3
71	11.4	87.7	266	4	US-09-621-376-16813
72	11.4	87.7	267	3	US-08-746-111-38
73	11.4	87.7	278	4	US-09-313-294A-1465
74	11.4	87.7	298	4	US-09-229-037-16
75	11.4	87.7	298	4	US-09-478-681-16
76	11.4	87.7	320	3	US-09-177-325-3
77	11.4	87.7	320	3	US-09-411-812A-3
78	11.4	87.7	320	4	US-09-590-113-3
79	11.4	87.7	321	1	US-08-488-376-12
80	11.4	87.7	321	2	US-08-634-224-12
81	11.4	87.7	321	2	US-08-634-400-12
82	11.4	87.7	321	2	US-08-635-878-12
83	11.4	87.7	321	2	US-08-770-057-12
84	11.4	87.7	321	3	US-09-335-697B-12
85	11.4	87.7	321	4	US-09-335-697B-12
86	11.4	87.7	321	4	US-09-740-002-12
87	11.4	87.7	321	4	US-08-171-718-118
88	11.4	87.7	339	1	US-08-478-087-118
89	11.4	87.7	339	3	US-09-702-705-1151
90	11.4	87.7	346	4	US-09-736-457-1151
91	11.4	87.7	346	4	US-09-614-124B-1151
92	11.4	87.7	346	4	US-09-871-325-1151
93	11.4	87.7	346	4	US-09-840-173-142
94	11.4	87.7	396	4	US-09-713-550-142
95	11.4	87.7	403	1	US-08-408-133-4
96	11.4	87.7	403	1	US-08-454-683-4
97	11.4	87.7	403	1	US-08-116-778B-20
98	11.4	87.7	403	2	US-08-454-680-4
99	11.4	87.7	403	2	US-08-438-562-20
100	11.4	87.7	403	2	US-08-438-562-20



101	11.4	87.7	403	2	US-08-483-528B-20	Sequence 20, Appl	c 174	11.4	87.7	1605	4	US-08-842-248A-7	Sequence 7, Appl
102	11.4	87.7	403	3	US-08-673-799C-20	Sequence 20, Appl	c 175	11.4	87.7	1605	4	US-09-023-655-194	Sequence 194, App
103	11.4	87.7	403	4	US-09-393-385B-20	Sequence 20, Appl	c 176	11.4	87.7	1605	4	US-09-023-655-194	Sequence 194, App
104	11.4	87.7	403	4	US-09-223-322B-7	Sequence 7, Appl	c 177	11.4	87.7	1608	3	US-09-484-345-3	Sequence 3, Appl
105	11.4	87.7	403	4	US-09-764-304-7	Sequence 7, Appl	c 178	11.4	87.7	1620	3	US-08-985-950-11	Sequence 11, Appl
106	11.4	87.7	419	4	US-09-641-638-431	Sequence 431, App	c 179	11.4	87.7	1620	4	US-09-546-049-11	Sequence 11, Appl
107	11.4	87.7	441	4	US-09-621-976-12995	Sequence 12995, A	c 180	11.4	87.7	1622	4	US-09-268-992-65	Sequence 65, Appl
108	11.4	87.7	490	4	US-09-621-976-12082	Sequence 12082, A	c 181	11.4	87.7	1622	4	US-09-657-474-65	Sequence 65, Appl
109	11.4	87.7	493	4	US-09-621-976-312	Sequence 312, App	c 182	11.4	87.7	1625	4	US-09-310-463-17	Sequence 17, Appl
110	11.4	87.7	494	4	US-09-621-976-617	Sequence 617, App	c 183	11.4	87.7	1625	4	US-08-842-248A-17	Sequence 17, Appl
111	11.4	87.7	500	4	US-09-309-487-13	Sequence 13, Appl	c 184	11.4	87.7	1668	4	US-09-976-594-336	Sequence 336, App
112	11.4	87.7	504	4	US-09-967-808-13	Sequence 13, Appl	c 185	11.4	87.7	1679	4	US-09-514-247A-5	Sequence 5, Appl
113	11.4	87.7	504	4	US-09-308-345A-5	Sequence 5, Appl	c 186	11.4	87.7	1688	4	US-09-791-165-3	Sequence 3, Appl
114	11.4	87.7	506	4	US-09-621-976-8627	Sequence 8627, Ap	c 187	11.4	87.7	1700	4	US-09-514-521-2	Sequence 2, Appl
115	11.4	87.7	510	4	US-09-621-976-9240	Sequence 9240, Ap	c 188	11.4	87.7	1700	4	US-09-791-165-1	Sequence 1, Appl
116	11.4	87.7	542	3	US-09-305-639-5	Sequence 5, Appl	c 189	11.4	87.7	1724	3	US-09-153-804-8	Sequence 8, Appl
117	11.4	87.7	542	4	US-09-545-160B-3	Sequence 3, Appl	c 190	11.4	87.7	1823	4	US-09-620-312B-1012	Sequence 1012, Ap
118	11.4	87.7	553	4	US-09-621-976-11498	Sequence 11498, A	c 191	11.4	87.7	1844	3	US-08-134-557D-1	Sequence 1, Appl
119	11.4	87.7	573	4	US-09-347-878-21	Sequence 21, Appl	c 192	11.4	87.7	1856	4	US-09-644-460-32	Sequence 32, Appl
120	11.4	87.7	589	4	US-09-229-037-29	Sequence 29, Appl	c 193	11.4	87.7	1856	3	US-09-345-468-24	Sequence 24, Appl
121	11.4	87.7	589	4	US-09-478-681-29	Sequence 29, Appl	c 194	11.4	87.7	1896	4	US-09-414-453A-24	Sequence 24, Appl
122	11.4	87.7	599	3	US-09-385-982-65	Sequence 65, Appl	c 195	11.4	87.7	1896	1	US-07-814-964-8	Sequence 8, Appl
123	11.4	87.7	660	4	US-09-489-039A-4222	Sequence 4222, Ap	c 196	11.4	87.7	1898	1	US-08-258-442-8	Sequence 8, Appl
124	11.4	87.7	705	1	US-08-488-376-16	Sequence 16, Appl	c 197	11.4	87.7	1898	1	US-08-328-809-3	Sequence 3, Appl
125	11.4	87.7	705	2	US-08-634-223-16	Sequence 16, Appl	c 198	11.4	87.7	1898	4	US-08-866-840-3	Sequence 3, Appl
126	11.4	87.7	705	2	US-08-634-224-16	Sequence 16, Appl	c 199	11.4	87.7	1898	5	PCT-US92-11107-8	Sequence 8, Appl
127	11.4	87.7	705	2	US-08-634-400-16	Sequence 16, Appl	c 200	11.4	87.7	1910	4	US-09-310-463-13	Sequence 13, Appl
128	11.4	87.7	705	2	US-08-635-878-16	Sequence 16, Appl	c 201	11.4	87.7	1910	4	US-08-842-248A-13	Sequence 13, Appl
129	11.4	87.7	705	2	US-08-770-057-16	Sequence 16, Appl	c 202	11.4	87.7	1957	4	US-09-268-992-3	Sequence 3, Appl
130	11.4	87.7	705	3	US-09-335-697B-16	Sequence 16, Appl	c 203	11.4	87.7	1957	4	US-09-657-474-3	Sequence 3, Appl
131	11.4	87.7	705	4	US-09-335-697B-16	Sequence 16, Appl	c 204	11.4	87.7	1959	4	US-09-220-132-52	Sequence 52, Appl
132	11.4	87.7	705	4	US-09-740-002-16	Sequence 16, Appl	c 205	11.4	87.7	1983	4	US-09-066-281B-18	Sequence 18, Appl
133	11.4	87.7	797	3	US-08-981-803-13	Sequence 13, Appl	c 206	11.4	87.7	1983	4	US-09-468-433C-18	Sequence 18, Appl
134	11.4	87.7	797	3	US-08-981-803-27	Sequence 27, Appl	c 207	11.4	87.7	2049	4	US-09-171-545-23	Sequence 23, Appl
135	11.4	87.7	797	3	US-08-983-440-13	Sequence 13, Appl	c 208	11.4	87.7	2055	4	US-09-268-992-1	Sequence 1, Appl
136	11.4	87.7	797	3	US-08-983-440-27	Sequence 27, Appl	c 209	11.4	87.7	2055	4	US-09-657-474-1	Sequence 1, Appl
137	11.4	87.7	797	4	US-09-367-895-13	Sequence 13, Appl	c 210	11.4	87.7	2061	4	US-09-310-463-21	Sequence 21, Appl
138	11.4	87.7	797	4	US-09-367-895-27	Sequence 27, Appl	c 211	11.4	87.7	2061	4	US-08-842-248A-21	Sequence 21, Appl
139	11.4	87.7	818	3	US-08-998-416-429	Sequence 429, App	c 212	11.4	87.7	2080	4	US-09-716-129-17	Sequence 17, Appl
140	11.4	87.7	840	3	US-09-328-352-591	Sequence 591, App	c 213	11.4	87.7	2170	3	US-09-345-468-11	Sequence 11, Appl
141	11.4	87.7	900	4	US-09-669-751-165	Sequence 165, App	c 214	11.4	87.7	2170	4	US-09-414-453A-11	Sequence 11, Appl
142	11.4	87.7	909	4	US-09-247-155-131	Sequence 131, App	c 215	11.4	87.7	2194	4	US-09-310-463-19	Sequence 19, Appl
143	11.4	87.7	954	3	US-09-418-641-3	Sequence 3, Appl	c 216	11.4	87.7	2194	3	US-08-842-248A-19	Sequence 19, Appl
144	11.4	87.7	966	4	US-09-252-991A-7662	Sequence 7662, Ap	c 217	11.4	87.7	2197	3	US-08-985-950-13	Sequence 13, Appl
145	11.4	87.7	1059	4	US-09-791-165-5	Sequence 5, Appl	c 218	11.4	87.7	2197	4	US-09-546-049-13	Sequence 13, Appl
146	11.4	87.7	1059	4	US-09-791-165-6	Sequence 6, Appl	c 219	11.4	87.7	2200	3	US-08-985-950-19	Sequence 19, Appl
147	11.4	87.7	1070	3	US-08-904-284-1	Sequence 1, Appl	c 220	11.4	87.7	2200	4	US-09-546-049-19	Sequence 19, Appl
148	11.4	87.7	1101	4	US-09-252-991A-7895	Sequence 7895, Ap	c 221	11.4	87.7	2221	4	US-09-310-463-9	Sequence 9, Appl
149	11.4	87.7	1126	4	US-09-614-912-179	Sequence 179, App	c 222	11.4	87.7	2221	4	US-08-842-248A-9	Sequence 9, Appl
150	11.4	87.7	1149	1	US-08-323-531-5	Sequence 5, Appl	c 223	11.4	87.7	2235	1	US-08-313-181-3	Sequence 3, Appl
151	11.4	87.7	1149	1	US-08-198-094-5	Sequence 5, Appl	c 224	11.4	87.7	2237	1	US-08-487-135B-1	Sequence 1, Appl
152	11.4	87.7	1149	3	US-08-107-794A-5	Sequence 5, Appl	c 225	11.4	87.7	2237	2	US-08-915-972A-1	Sequence 1, Appl
153	11.4	87.7	1149	5	PCT-US93-07424-5	Sequence 5, Appl	c 226	11.4	87.7	2237	2	US-09-177-909-1	Sequence 1, Appl
154	11.4	87.7	1149	5	PCT-US95-02087-5	Sequence 5, Appl	c 227	11.4	87.7	2257	1	US-08-171-718-15	Sequence 15, Appl
155	11.4	87.7	1165	4	US-09-603-552-2	Sequence 2, Appl	c 228	11.4	87.7	2257	3	US-08-478-087-15	Sequence 15, Appl
156	11.4	87.7	1220	4	US-09-401-064-129	Sequence 129, App	c 229	11.4	87.7	2259	2	US-08-145-681-5	Sequence 5, Appl
157	11.4	87.7	1314	4	US-09-495-050A-174	Sequence 174, App	c 230	11.4	87.7	2259	2	US-08-453-703-5	Sequence 5, Appl
158	11.4	87.7	1332	4	US-09-328-352-3998	Sequence 3998, Ap	c 231	11.4	87.7	2259	2	US-08-456-106-5	Sequence 5, Appl
159	11.4	87.7	1377	4	US-09-107-532A-314	Sequence 314, App	c 232	11.4	87.7	2259	3	US-08-456-108-5	Sequence 5, Appl
160	11.4	87.7	1383	4	US-09-328-352-3226	Sequence 3226, Ap	c 233	11.4	87.7	2259	3	US-09-665-577-5	Sequence 5, Appl
161	11.4	87.7	1431	4	US-09-268-992-6	Sequence 6, Appl	c 234	11.4	87.7	2259	4	US-09-633-739-5	Sequence 5, Appl
162	11.4	87.7	1431	4	US-09-657-474-6	Sequence 6, Appl	c 235	11.4	87.7	2271	3	US-08-985-950-15	Sequence 15, Appl
163	11.4	87.7	1434	3	US-09-128-142-1	Sequence 1, Appl	c 236	11.4	87.7	2271	4	US-09-546-049-15	Sequence 15, Appl
164	11.4	87.7	1451	4	US-09-310-463-37	Sequence 37, Appl	c 237	11.4	87.7	2274	4	US-09-252-991A-6998	Sequence 6998, Ap
165	11.4	87.7	1458	4	US-09-482-273-14	Sequence 14, Appl	c 238	11.4	87.7	2352	3	US-08-478-316-3	Sequence 3, Appl
166	11.4	87.7	1473	4	US-09-518-914-7	Sequence 7, Appl	c 239	11.4	87.7	2352	4	US-09-489-039A-4059	Sequence 4059, Ap
167	11.4	87.7	1485	4	US-09-268-992-5	Sequence 5, Appl	c 240	11.4	87.7	2409	4	US-08-904-284-6	Sequence 6, Appl
168	11.4	87.7	1485	4	US-09-657-474-5	Sequence 5, Appl	c 241	11.4	87.7	2437	3	US-09-309-487-24	Sequence 24, Appl
169	11.4	87.7	1518	3	US-09-128-142-3	Sequence 3, Appl	c 242	11.4	87.7	2525	4	US-09-967-808-24	Sequence 24, Appl
170	11.4	87.7	1518	4	US-09-016-434-1136	Sequence 1136, Ap	c 243	11.4	87.7	2525	4	PCT-US91-02954-1	Sequence 1, Appl
171	11.4	87.7	1600	2	US-08-487-113D-117	Sequence 117, App	c 244	11.4	87.7	2588	5	US-09-420-132-29	Sequence 29, Appl
172	11.4	87.7	1600	2	US-08-720-420A-117	Sequence 117, App	c 245	11.4	87.7	2602	4	US-07-725-083-1	Sequence 1, Appl
173	11.4	87.7	1605	4	US-09-310-463-7	Sequence 7, Appl	c 246	11.4	87.7	2608	1		

C 247	11.4	87.7	2608	4	US-09-023-655-1277	Sequence 1277, Ap	C 320	11	84.6	20	3	US-08-906-156A-8	Sequence 8, Appli
C 248	11.4	87.7	2839	1	US-07-814-964-6	Sequence 6, Appli	C 321	11	84.6	20	3	US-08-702-525-61	Sequence 61, Appl
C 249	11.4	87.7	2839	1	US-08-258-442-6	Sequence 6, Appli	C 322	11	84.6	20	4	US-09-326-186B-68	Sequence 68, Appl
C 250	11.4	87.7	2839	1	US-08-328-809-1	Sequence 1, Appli	C 323	11	84.6	20	4	US-09-326-186B-164	Sequence 164, App
C 251	11.4	87.7	2839	3	US-09-013-030-1	Sequence 1, Appli	C 324	11	84.6	20	5	PCT-US95-04576-61	Sequence 61, Appli
C 252	11.4	87.7	2839	4	US-09-160-406-3	Sequence 3, Appli	C 325	11	84.6	23	4	US-09-440-936-6	Sequence 6, Appli
C 253	11.4	87.7	2839	4	US-08-866-840-1	Sequence 1, Appli	C 326	11	84.6	47	4	US-09-422-978-1615	Sequence 1615, Ap
C 254	11.4	87.7	2839	4	US-08-945-826-5	Sequence 5, Appli	C 327	11	84.6	190	4	US-09-621-976-16812	Sequence 16812, A
C 255	11.4	87.7	2839	4	US-09-197-503-5	Sequence 5, Appli	C 328	11	84.6	272	4	US-09-313-294A-3697	Sequence 3697, Ap
C 256	11.4	87.7	2839	5	PCT-US92-11107-6	Sequence 6, Appli	C 329	11	84.6	274	4	US-09-313-294A-866	Sequence 866, App
C 257	11.4	87.7	2886	4	US-09-221-017B-863	Sequence 863, App	C 330	11	84.6	278	4	US-09-016-434-500	Sequence 500, App
C 258	11.4	87.7	2940	4	US-09-060-281B-20	Sequence 20, Appl	C 331	11	84.6	287	4	US-09-313-294A-1166	Sequence 1166, Ap
C 259	11.4	87.7	2940	4	US-09-468-433C-20	Sequence 20, Appl	C 332	11	84.6	321	3	US-08-905-223-145	Sequence 145, App
C 260	11.4	87.7	3001	4	US-09-539-333D-173	Sequence 173, App	C 333	11	84.6	398	1	US-08-592-126-134	Sequence 134, App
C 261	11.4	87.7	3001	4	US-09-539-333D-185	Sequence 185, App	C 334	11	84.6	398	4	US-09-168-595-134	Sequence 134, App
C 262	11.4	87.7	3279	4	US-09-439-313-382	Sequence 382, App	C 335	11	84.6	404	3	US-09-328-111-737	Sequence 737, App
C 263	11.4	87.7	3279	4	US-09-352-616A-382	Sequence 382, App	C 336	11	84.6	406	4	US-09-621-976-1118	Sequence 1118, Ap
C 264	11.4	87.7	3279	4	US-09-636-215-382	Sequence 382, App	C 337	11	84.6	470	4	US-09-474-140-4	Sequence 4, Appli
C 265	11.4	87.7	3279	4	US-09-685-166A-382	Sequence 382, App	C 338	11	84.6	474	4	US-09-621-976-17705	Sequence 17705, A
C 266	11.4	87.7	3345	4	US-09-975-413A-11	Sequence 11, Appl	C 339	11	84.6	484	4	US-09-833-381-1826	Sequence 1826, Ap
C 267	11.4	87.7	3381	3	US-09-009-119-1	Sequence 1, Appli	C 340	11	84.6	490	4	US-09-621-976-13209	Sequence 13209, A
C 268	11.4	87.7	3381	4	US-09-371-507-1	Sequence 1, Appli	C 341	11	84.6	507	4	US-09-621-976-1728	Sequence 1728, Ap
C 269	11.4	87.7	3383	5	PCT-US95-09098-1	Sequence 1, Appli	C 342	11	84.6	522	4	US-09-370-838-16	Sequence 16, Appl
C 270	11.4	87.7	3420	4	US-09-513-505-3	Sequence 3, Appli	C 343	11	84.6	564	4	US-09-134-001C-1906	Sequence 1906, Ap
C 271	11.4	87.7	3478	4	US-09-513-505-3	Sequence 3, Appli	C 344	11	84.6	767	3	US-08-998-416-458	Sequence 458, App
C 272	11.4	87.7	3588	4	US-09-620-312D-863	Sequence 863, App	C 345	11	84.6	786	4	US-09-489-039A-4557	Sequence 4557, Ap
C 273	11.4	87.7	4044	1	US-08-271-354-5	Sequence 5, Appli	C 346	11	84.6	861	3	US-08-905-223-34	Sequence 34, Appl
C 274	11.4	87.7	4044	2	US-08-565-861-5	Sequence 5, Appli	C 347	11	84.6	861	4	US-09-247-155-34	Sequence 34, Appl
C 275	11.4	87.7	4044	5	PCT-US94-07658-5	Sequence 5, Appli	C 348	11	84.6	861	4	US-09-599-360B-20	Sequence 20, Appl
C 276	11.4	87.7	4233	3	US-09-056-105-27	Sequence 27, Appl	C 349	11	84.6	861	4	US-09-663-600A-34	Sequence 34, Appl
C 277	11.4	87.7	4550	3	US-09-103-663-35	Sequence 35, Appl	C 350	11	84.6	861	4	US-09-621-976-20	Sequence 20, Appl
C 278	11.4	87.7	4855	4	US-09-976-594-847	Sequence 847, App	C 351	11	84.6	903	4	US-09-328-352-2652	Sequence 2652, Ap
C 279	11.4	87.7	5339	3	US-09-073-354-6	Sequence 6, Appli	C 352	11	84.6	909	4	US-09-433-322B-15	Sequence 15, Appl
C 280	11.4	87.7	5339	3	US-08-656-005A-6	Sequence 6, Appli	C 353	11	84.6	921	2	US-08-184-009-202	Sequence 202, App
C 281	11.4	87.7	5339	3	US-09-073-259-6	Sequence 6, Appli	C 354	11	84.6	921	2	US-08-458-356-202	Sequence 202, App
C 282	11.4	87.7	5339	3	US-09-363-095-6	Sequence 6, Appli	C 355	11	84.6	921	3	US-08-460-736-202	Sequence 202, App
C 283	11.4	87.7	5339	3	US-09-418-027-6	Sequence 6, Appli	C 356	11	84.6	921	4	US-09-535-370-202	Sequence 202, App
C 284	11.4	87.7	5342	3	US-08-902-632-1	Sequence 1, Appli	C 357	11	84.6	994	4	US-09-370-838-260	Sequence 260, App
C 285	11.4	87.7	5342	3	US-09-073-354-5	Sequence 5, Appli	C 358	11	84.6	1008	4	US-09-032-297A-7	Sequence 7, Appli
C 286	11.4	87.7	5342	3	US-08-656-005A-5	Sequence 5, Appli	C 359	11	84.6	1041	4	US-09-724-224-5	Sequence 5, Appli
C 287	11.4	87.7	5342	3	US-09-073-259-5	Sequence 5, Appli	C 360	11	84.6	1044	4	US-09-194-949A-8	Sequence 8, Appli
C 288	11.4	87.7	5342	3	US-09-363-095-5	Sequence 5, Appli	C 361	11	84.6	1074	4	US-09-489-039A-468	Sequence 468, App
C 289	11.4	87.7	5342	3	US-09-418-027-6	Sequence 5, Appli	C 362	11	84.6	1107	1	US-08-480-547A-17	Sequence 17, Appl
C 290	11.4	87.7	5416	4	US-09-284-926-8	Sequence 8, Appli	C 363	11	84.6	1107	2	US-08-250-847B-17	Sequence 17, Appl
C 291	11.4	87.7	5773	4	US-09-566-921-112	Sequence 112, App	C 364	11	84.6	1107	2	US-08-463-949A-17	Sequence 17, Appl
C 292	11.4	87.7	5943	1	US-08-208-176-1	Sequence 1, Appli	C 365	11	84.6	1107	3	US-08-464-410A-17	Sequence 17, Appl
C 293	11.4	87.7	7070	1	US-08-619-554-3	Sequence 3, Appli	C 366	11	84.6	1107	5	PCT-US94-06066-17	Sequence 17, Appl
C 294	11.4	87.7	7393	4	US-09-620-312D-372	Sequence 372, App	C 367	11	84.6	1115	4	US-09-724-224-1	Sequence 1, Appli
C 295	11.4	87.7	7622	3	US-09-305-639-1	Sequence 1, Appli	C 368	11	84.6	1134	4	US-09-561-756-13	Sequence 13, Appl
C 296	11.4	87.7	7622	4	US-09-525-160B-1	Sequence 1, Appli	C 369	11	84.6	1134	4	US-09-227-721-13	Sequence 13, Appl
C 297	11.4	87.7	10961	4	US-09-807-166-1	Sequence 1, Appli	C 370	11	84.6	1134	4	US-09-954-697-13	Sequence 13, Appl
C 298	11.4	87.7	11236	1	US-07-853-913-1	Sequence 1, Appli	C 371	11	84.6	1140	4	US-09-461-325-12	Sequence 12, Appl
C 299	11.4	87.7	11469	4	US-09-367-895-29	Sequence 29, Appl	C 372	11	84.6	1140	4	US-10-012-542-12	Sequence 12, Appl
C 300	11.4	87.7	11478	3	US-08-981-803-29	Sequence 29, Appl	C 373	11	84.6	1201	3	US-09-286-805-1	Sequence 1, Appli
C 301	11.4	87.7	11478	3	US-08-983-440-29	Sequence 29, Appl	C 374	11	84.6	1258	4	US-09-561-756-16	Sequence 16, Appl
C 302	11.4	87.7	16995	4	US-08-961-537-82	Sequence 82, Appl	C 375	11	84.6	1258	4	US-09-227-721-16	Sequence 16, Appl
C 303	11.4	87.7	17000	4	US-09-548-797B-7	Sequence 7, Appli	C 376	11	84.6	1258	4	US-09-954-697-16	Sequence 16, Appl
C 304	11.4	87.7	18436	4	US-08-961-527-87	Sequence 87, Appl	C 377	11	84.6	1263	4	US-09-023-655-1495	Sequence 1495, Ap
C 305	11.4	87.7	20674	4	US-09-641-638-651	Sequence 651, App	C 378	11	84.6	1274	1	US-08-443-865-5	Sequence 5, Appli
C 306	11.4	87.7	33982	4	US-09-820-924-3	Sequence 3, Appli	C 379	11	84.6	1274	1	US-08-900-491-5	Sequence 5, Appli
C 307	11.4	87.7	40090	4	US-09-820-004-3	Sequence 3, Appli	C 380	11	84.6	1291	3	US-08-776-900C-1	Sequence 1, Appli
C 308	11.4	87.7	51552	4	US-09-146-053-3	Sequence 3, Appli	C 381	11	84.6	1291	3	US-09-268-195C-1	Sequence 1, Appli
C 309	11.4	87.7	72604	4	US-09-733-294A-30	Sequence 30, Appli	C 382	11	84.6	1299	3	US-08-721-986-8	Sequence 8, Appli
C 310	11.4	87.7	72604	4	US-09-268-922-7	Sequence 7, Appli	C 383	11	84.6	1299	3	US-08-225-487A-8	Sequence 8, Appli
C 311	11.4	87.7	72604	4	US-09-657-474-7	Sequence 7, Appli	C 384	11	84.6	1310	3	US-08-776-900C-22	Sequence 22, Appl
C 312	11.4	87.7	90050	3	US-09-245-041-5	Sequence 5, Appli	C 385	11	84.6	1310	3	US-09-268-195C-22	Sequence 22, Appl
C 313	11.4	87.7	112132	4	US-09-741-150-3	Sequence 3, Appli	C 386	11	84.6	1318	5	PCT-US94-07127A-1	Sequence 1, Appli
C 314	11.4	87.7	112132	4	US-10-160-187-3	Sequence 3, Appli	C 387	11	84.6	1364	4	US-09-461-325-52	Sequence 52, Appl
C 315	11.4	87.7	161652	4	US-09-497-855A-40	Sequence 40, Appl	C 388	11	84.6	1364	4	US-10-012-542-52	Sequence 52, Appl
C 316	11.4	87.7	162450	4	US-09-345-882-1	Sequence 1, Appli	C 389	11	84.6	1384	2	US-07-607-538C-1	Sequence 1, Appli
C 317	11.4	87.7	1664976	4	US-08-916-421B-1	Sequence 1, Appli	C 390	11	84.6	1384	2	US-08-462-402B-1	Sequence 1, Appli
C 318	11	84.6	20	3	US-08-777-266A-68	Sequence 68, Appl	C 391	11	84.6	1384	4	US-09-364-185-1	Sequence 1, Appli
C 319	11	84.6	20	3	US-08-205-697A-61	Sequence 61, Appl	C 392	11	84.6	1398	3	US-08-205-697A-8	Sequence 8, Appli

393	11	84.6	1398	3	US-08-702-525-8	Sequence 8, Appli	Sequence 8, Appli
394	11	84.6	1398	4	US-09-837-867A-8	Sequence 8, Appli	Sequence 1218, Ap
395	11	84.6	1398	5	PCT-US95-02576-8	Sequence 8, Appli	Sequence 22, App
396	11	84.6	1414	1	US-08-224-930-3	Sequence 3, Appli	Sequence 11, Appl
397	11	84.6	1464	4	US-09-724-224-7	Sequence 7, Appli	Sequence 34, Appl
398	11	84.6	1538	4	US-09-724-224-3	Sequence 3, Appli	Sequence 635, App
399	11	84.6	1540	2	US-08-943-600A-2	Sequence 2, Appli	Sequence 1, Appli
400	11	84.6	1540	2	US-09-354-942-2	Sequence 2, Appli	Sequence 1, Appli
401	11	84.6	1570	3	US-08-205-697A-10	Sequence 10, Appli	Sequence 1, Appli
402	11	84.6	1570	3	US-08-702-525-10	Sequence 10, Appli	Sequence 1, Appli
403	11	84.6	1570	4	US-09-837-867A-10	Sequence 10, Appli	Sequence 2, Appli
404	11	84.6	1570	5	PCT-US95-02576-10	Sequence 10, Appli	Sequence 3, Appli
405	11	84.6	1587	4	US-09-032-297A-8	Sequence 8, Appli	Sequence 3, Appli
406	11	84.6	1617	4	US-09-433-322B-14	Sequence 14, Appli	Sequence 3, Appli
407	11	84.6	1620	4	US-09-194-949A-10	Sequence 10, Appli	Sequence 3, Appli
408	11	84.6	1716	2	US-08-147-772-3	Sequence 3, Appli	Sequence 1, Appli
409	11	84.6	1716	2	US-08-456-104-7	Sequence 7, Appli	Sequence 1, Appli
410	11	84.6	1716	2	US-08-101-624-24	Sequence 24, Appli	Sequence 22, Appl
411	11	84.6	1716	3	US-08-153-262-3	Sequence 3, Appli	Sequence 22, Appl
412	11	84.6	1716	3	US-08-479-744A-30	Sequence 30, Appli	Sequence 22, Appl
413	11	84.6	1716	3	US-08-280-757B-30	Sequence 30, Appli	Sequence 22, Appl
414	11	84.6	1716	3	US-09-159-135-3	Sequence 3, Appli	Sequence 22, Appl
415	11	84.6	1716	3	US-08-205-697A-16	Sequence 16, Appli	Sequence 91, Appl
416	11	84.6	1716	3	US-08-702-525-16	Sequence 16, Appli	Sequence 101, App
417	11	84.6	1716	4	US-09-450-798-3	Sequence 3, Appli	Sequence 91, Appl
418	11	84.6	1716	4	US-09-425-762-30	Sequence 30, Appli	Sequence 101, App
419	11	84.6	1716	4	US-09-837-867A-16	Sequence 16, Appli	Sequence 4, Appli
420	11	84.6	1716	4	US-08-453-386A-3	Sequence 3, Appli	Sequence 11, Appl
421	11	84.6	1716	5	PCT-US95-02576-16	Sequence 16, Appli	Sequence 11, Appl
422	11	84.6	1730	4	US-09-672-785-3	Sequence 3, Appli	Sequence 1, Appli
423	11	84.6	1733	1	US-08-470-202-57	Sequence 57, Appli	Sequence 1, Appli
424	11	84.6	1733	1	US-08-470-202-58	Sequence 58, Appli	Sequence 1, Appli
425	11	84.6	1733	1	US-08-471-770-57	Sequence 57, Appli	Sequence 1, Appli
426	11	84.6	1733	1	US-08-471-770-58	Sequence 58, Appli	Sequence 1, Appli
427	11	84.6	1733	2	US-08-468-059-57	Sequence 57, Appli	Sequence 2, Appli
428	11	84.6	1733	2	US-08-468-059-58	Sequence 58, Appli	Sequence 2, Appli
429	11	84.6	1733	3	US-09-109-916-57	Sequence 57, Appli	Sequence 3, Appli
430	11	84.6	1733	3	US-09-109-916-58	Sequence 58, Appli	Sequence 3, Appli
431	11	84.6	1733	4	US-09-886-156-57	Sequence 57, Appli	Sequence 12, Appl
432	11	84.6	1733	4	US-09-886-156-58	Sequence 58, Appli	Sequence 12, Appl
433	11	84.6	1733	4	US-09-886-149-57	Sequence 57, Appli	Sequence 2, Appli
434	11	84.6	1733	4	US-09-886-149-58	Sequence 58, Appli	Sequence 2, Appli
435	11	84.6	1733	4	US-09-886-150-57	Sequence 57, Appli	Sequence 5, Appli
436	11	84.6	1733	4	US-09-886-150-58	Sequence 58, Appli	Sequence 5, Appli
437	11	84.6	1733	4	US-09-886-159-57	Sequence 57, Appli	Sequence 11, Appl
438	11	84.6	1733	4	US-09-886-159-58	Sequence 58, Appli	Sequence 11, Appl
439	11	84.6	1735	4	US-08-440-536-3	Sequence 3, Appli	Sequence 3, Appli
440	11	84.6	1756	4	US-09-166-350-30	Sequence 30, Appli	Patent No. 5395760
441	11	84.6	1756	4	US-09-023-655-954	Sequence 954, App	Sequence 1, Appli
442	11	84.6	1810	1	US-07-913-107-1	Sequence 1, Appli	Sequence 1, Appli
443	11	84.6	1810	1	US-08-459-201-1	Sequence 1, Appli	Patent No. 5510474
444	11	84.6	1810	1	US-08-281-248-1	Sequence 1, Appli	Sequence 19, Appl
445	11	84.6	1816	2	US-08-931-148-2	Sequence 2, Appli	Sequence 488, App
446	11	84.6	1816	2	US-09-165-234-2	Sequence 2, Appli	Sequence 1, Appli
447	11	84.6	1816	3	US-09-274-570-2	Sequence 2, Appli	Sequence 1120, Ap
448	11	84.6	1830	3	US-09-620-312D-175	Sequence 175, App	Sequence 1, Appli
449	11	84.6	1845	3	US-09-029-603-5	Sequence 5, Appli	Sequence 1, Appli
450	11	84.6	1859	3	US-08-724-864-22	Sequence 22, Appli	Sequence 1, Appli
451	11	84.6	1888	3	US-08-265-697A-1	Sequence 1, Appli	Sequence 11, Appl
452	11	84.6	1888	3	US-08-702-525-1	Sequence 1, Appli	Sequence 11, Appl
453	11	84.6	1888	4	US-09-837-867A-1	Sequence 1, Appli	Sequence 11, Appl
454	11	84.6	1888	5	PCT-US95-02576-1	Sequence 1, Appli	Sequence 1, Appli
455	11	84.6	1894	3	US-09-032-297A-9	Sequence 9, Appli	Sequence 555, App
456	11	84.6	1925	3	US-08-669-378-1	Sequence 1, Appli	Sequence 3, Appli
457	11	84.6	1925	3	US-08-669-378-3	Sequence 3, Appli	Sequence 7, Appli
458	11	84.6	1925	3	US-08-669-378-5	Sequence 5, Appli	Sequence 7, Appli
459	11	84.6	1925	3	US-08-669-378-7	Sequence 7, Appli	Sequence 1284, Ap
460	11	84.6	1925	3	US-08-669-378-9	Sequence 9, Appli	Sequence 2, Appli
461	11	84.6	1925	3	US-08-669-378-11	Sequence 11, Appli	Sequence 8, Appli
462	11	84.6	1926	4	US-08-737-109-9	Sequence 9, Appli	Sequence 8, Appli
463	11	84.6	1926	4	US-08-023-655-312	Sequence 312, App	Sequence 5, Appli
464	11	84.6	1934	2	US-08-162-402B-7	Sequence 7, Appli	Sequence 5, Appli
465	11	84.6	1975	4	US-09-433-322B-12	Sequence 12, Appli	Sequence 5, Appli

539	11	84.6	5764	4	US-09-312-762A-8	Sequence 8, Appli	c 612	10.4	80.0	17	4	US-09-866-108A-7194	Sequence 7194, Ap
c 540	11	84.6	5917	3	US-08-692-922-1	Sequence 1, Appli	c 613	10.4	80.0	17	4	US-09-866-108A-7195	Sequence 7195, Ap
541	11	84.6	6993	4	US-08-934-386-6	Sequence 6, Appli	c 614	80.0	80.0	18	4	US-09-422-978-4670	Sequence 4670, Ap
542	11	84.6	7333	3	US-08-766-528-2	Sequence 2, Appli	615	10.4	80.0	20	1	US-08-215-138-15	Sequence 15, Appl
543	11	84.6	7470	3	US-08-417-089-5	Sequence 5, Appli	616	10.4	80.0	20	1	US-08-407-344-15	Sequence 15, Appl
544	11	84.6	7470	3	US-08-695-651-5	Sequence 5, Appli	617	10.4	80.0	20	2	US-09-018-422-11	Sequence 11, Appl
545	11	84.6	7470	3	US-08-930-285-5	Sequence 5, Appli	c 618	10.4	80.0	20	3	US-09-351-351-11	Sequence 11, Appl
546	11	84.6	7470	3	US-08-695-421-5	Sequence 5, Appli	c 619	10.4	80.0	20	3	US-09-359-756-32	Sequence 32, Appl
547	11	84.6	7470	3	US-08-697-826A-9	Sequence 9, Appli	c 620	10.4	80.0	20	3	US-09-183-931-13	Sequence 13, Appl
548	11	84.6	8060	3	US-08-766-528-1	Sequence 1, Appli	c 621	10.4	80.0	20	4	US-09-702-251-48	Sequence 48, Appl
549	11	84.6	8132	3	US-08-766-528-3	Sequence 3, Appli	c 622	10.4	80.0	20	4	US-09-705-160-13	Sequence 13, Appl
c 550	11	84.6	8323	2	US-08-110-300A-8	Sequence 8, Appli	c 623	10.4	80.0	20	4	US-09-495-714C-11	Sequence 11, Appl
c 551	11	84.6	8323	2	US-08-886-642-8	Sequence 8, Appli	624	10.4	80.0	20	4	US-09-647-143-4	Sequence 4, Appli
c 552	11	84.6	8323	5	PCT-US93-08041-8	Sequence 8, Appli	c 625	10.4	80.0	22	4	US-09-733-444-14	Sequence 14, Appl
c 553	11	84.6	8323	4	US-08-961-527-68	Sequence 68, Appl	c 626	10.4	80.0	25	4	US-09-866-108A-10966	Sequence 10966, A
c 554	11	84.6	9244	1	US-08-470-202-56	Sequence 56, Appl	c 627	10.4	80.0	25	4	US-09-866-108A-10967	Sequence 10967, A
555	11	84.6	9793	1	US-08-471-770-56	Sequence 56, Appl	c 628	10.4	80.0	25	4	US-09-866-108A-10968	Sequence 10968, A
556	11	84.6	9793	1	US-08-468-059-56	Sequence 56, Appl	c 629	10.4	80.0	25	4	US-09-866-108A-10969	Sequence 10969, A
557	11	84.6	9793	2	US-08-109-916-56	Sequence 56, Appl	c 630	10.4	80.0	25	4	US-09-866-108A-10970	Sequence 10970, A
558	11	84.6	9793	3	US-08-886-156-56	Sequence 56, Appl	c 631	10.4	80.0	25	4	US-09-866-108A-10971	Sequence 10971, A
559	11	84.6	9793	4	US-08-886-149-56	Sequence 56, Appl	c 632	10.4	80.0	25	4	US-09-866-108A-10972	Sequence 10972, A
560	11	84.6	9793	4	US-08-886-150-56	Sequence 56, Appl	c 633	10.4	80.0	25	4	US-09-866-108A-10973	Sequence 10973, A
561	11	84.6	9793	4	US-08-886-150-56	Sequence 56, Appl	c 634	10.4	80.0	25	4	US-09-866-108A-10974	Sequence 10974, A
562	11	84.6	9793	4	US-08-886-159-56	Sequence 56, Appl	c 635	10.4	80.0	25	4	US-09-866-108A-10975	Sequence 10975, A
563	11	84.6	10367	1	US-08-110-300A-9	Sequence 9, Appli	c 636	10.4	80.0	25	4	US-09-866-108A-10976	Sequence 10976, A
564	11	84.6	10367	2	PCT-US93-08041-9	Sequence 9, Appli	c 637	10.4	80.0	25	4	US-09-866-108A-10977	Sequence 10977, A
565	11	84.6	15056	4	US-09-474-699-10	Sequence 10, Appl	c 638	10.4	80.0	25	4	US-09-866-108A-10978	Sequence 10978, A
c 566	11	84.6	16063	4	US-08-801-052-3	Sequence 3, Appli	c 639	10.4	80.0	25	4	US-09-866-108A-10979	Sequence 10979, A
c 567	11	84.6	16063	4	US-10-020-121-3	Sequence 3, Appli	c 640	10.4	80.0	25	4	US-09-866-108A-12082	Sequence 12082, A
c 568	11	84.6	17410	1	US-07-841-646-3	Sequence 3, Appli	c 641	10.4	80.0	25	4	US-09-866-108A-12083	Sequence 12083, A
c 569	11	84.6	17410	1	US-08-147-023-3	Sequence 3, Appli	c 642	10.4	80.0	25	4	US-09-866-108A-12084	Sequence 12084, A
c 570	11	84.6	17410	1	US-08-447-570-3	Sequence 3, Appli	c 643	10.4	80.0	25	4	US-09-866-108A-12085	Sequence 12085, A
c 571	11	84.6	17410	2	US-08-449-700-3	Sequence 3, Appli	c 644	10.4	80.0	25	4	US-09-866-108A-12086	Sequence 12086, A
c 572	11	84.6	17410	2	US-08-449-700-3	Sequence 3, Appli	c 645	10.4	80.0	25	4	US-09-866-108A-12087	Sequence 12087, A
c 573	11	84.6	17410	2	US-08-449-699A-3	Sequence 3, Appli	c 646	10.4	80.0	25	4	US-09-866-108A-12088	Sequence 12088, A
c 574	11	84.6	17410	4	US-09-148-925C-3	Sequence 3, Appli	c 647	10.4	80.0	25	4	US-09-866-108A-12089	Sequence 12089, A
c 575	11	84.6	17410	4	US-08-957-425-3	Sequence 3, Appli	c 648	10.4	80.0	25	4	US-09-866-108A-12090	Sequence 12090, A
c 576	11	84.6	17415	5	US-08-486-343A-1	Sequence 1, Appli	c 649	10.4	80.0	25	4	US-09-866-108A-12091	Sequence 12091, A
c 577	11	84.6	17415	5	PCT-US95-07349-1	Sequence 1, Appli	c 650	10.4	80.0	25	4	US-09-866-108A-12092	Sequence 12092, A
c 578	11	84.6	29604	3	US-08-781-891-207	Sequence 207, App	c 651	10.4	80.0	25	4	US-09-866-108A-12093	Sequence 12093, A
c 579	11	84.6	29604	4	US-09-618-166-207	Sequence 207, App	c 652	10.4	80.0	25	4	US-09-866-108A-12094	Sequence 12094, A
c 580	11	84.6	29629	4	US-09-729-995-3	Sequence 3, Appli	c 653	10.4	80.0	26	1	US-08-342-411A-25	Sequence 25, Appl
c 581	11	84.6	29629	4	US-10-135-689-3	Sequence 3, Appli	654	10.4	80.0	26	1	US-08-342-411A-26	Sequence 26, Appl
c 582	11	84.6	32654	4	US-08-801-191A-3	Sequence 3, Appli	c 655	10.4	80.0	26	2	US-08-859-998-947	Sequence 947, App
583	11	84.6	34794	4	US-09-713-678-39	Sequence 39, Appl	c 656	10.4	80.0	26	2	US-09-225-928-947	Sequence 947, App
584	11	84.6	34794	4	US-10-002-720-44	Sequence 44, Appl	c 657	10.4	80.0	26	4	US-09-225-201B-947	Sequence 947, App
585	11	84.6	35100	1	US-08-306-691B-19	Sequence 19, Appl	c 658	10.4	80.0	26	4	PCT-US94-12883-25	Sequence 25, Appl
586	11	84.6	35100	5	PCT-US93-06251-19	Sequence 19, Appl	c 659	10.4	80.0	26	5	PCT-US94-12883-26	Sequence 26, Appl
587	11	84.6	43950	4	US-09-735-934A-3	Sequence 3, Appli	c 660	10.4	80.0	30	3	US-09-593-323-8	Sequence 8, Appli
588	11	84.6	43950	4	US-10-060-332-3	Sequence 3, Appli	661	10.4	80.0	30	3	US-09-594-108-8	Sequence 8, Appli
589	11	84.6	45546	4	US-09-146-053-6	Sequence 6, Appli	662	10.4	80.0	30	3	US-09-344-300-8	Sequence 47, Appl
c 590	11	84.6	62804	4	US-09-800-960-3	Sequence 3, Appli	663	10.4	80.0	30	3	US-07-987-264-47	Sequence 67, Appl
c 591	11	84.6	62804	4	US-10-096-960-3	Sequence 3, Appli	c 664	10.4	80.0	46	2	US-08-477-527A-67	Sequence 67, Appl
c 592	11	84.6	64467	4	US-09-803-671B-3	Sequence 3, Appli	665	10.4	80.0	46	3	PCT-US96-09537-67	Sequence 67, Appl
593	11	84.6	65042	4	US-09-784-316-3	Sequence 3, Appli	666	10.4	80.0	47	3	PCT-US96-09537-67	Sequence 67, Appl
c 594	11	84.6	124884	4	US-09-661-596A-76	Sequence 76, Appl	667	10.4	80.0	47	3	US-08-782-480-54	Sequence 54, Appl
c 595	11	84.6	124884	4	US-09-913-514-1	Sequence 1, Appli	668	10.4	80.0	47	3	US-08-954-211-54	Sequence 54, Appl
c 596	11	84.6	125157	4	US-09-913-514-2	Sequence 2, Appli	669	10.4	80.0	47	4	US-09-005-167B-54	Sequence 54, Appl
597	11	84.6	580073	4	US-08-545-528D-1	Sequence 1, Appli	670	10.4	80.0	47	4	US-09-176-741B-54	Sequence 54, Appl
598	11	84.6	4403765	3	US-09-103-840A-2	Sequence 2, Appli	671	10.4	80.0	47	4	US-09-422-978-1832	Sequence 1832, Ap
599	11	84.6	4411529	3	US-09-103-840A-1	Sequence 1, Appli	672	10.4	80.0	50	1	US-08-171-389-330	Sequence 330, App
600	10.6	81.5	531	13	US-09-621-976-16178	Sequence 25, Appl	673	10.4	80.0	50	1	US-08-123-936-330	Sequence 330, App
601	10.4	80.0	13	4	US-08-216-592A-25	Sequence 25, Appl	674	10.4	80.0	50	1	US-08-475-228A-330	Sequence 330, App
c 602	10.4	80.0	17	4	US-08-866-108A-6074	Sequence 6074, Ap	675	10.4	80.0	50	2	US-08-482-080A-330	Sequence 330, App
c 603	10.4	80.0	17	4	US-09-866-108A-6075	Sequence 6075, Ap	676	10.4	80.0	50	3	PCT-US93-12388-330	Sequence 330, App
c 604	10.4	80.0	17	4	US-09-866-108A-6076	Sequence 6076, Ap	677	10.4	80.0	50	4	US-09-354-947-330	Sequence 330, App
c 605	10.4	80.0	17	4	US-09-866-108A-6077	Sequence 6077, Ap	678	10.4	80.0	56	5	PCT-US93-12388-330	Sequence 330, App
c 606	10.4	80.0	17	4	US-09-866-108A-6078	Sequence 6078, Ap	679	10.4	80.0	56	3	US-09-275-850-199	Sequence 199, App
c 607	10.4	80.0	17	4	US-09-866-108A-6079	Sequence 6079, Ap	680	10.4	80.0	57	2	US-08-465-591A-19	Sequence 19, Appl
c 608	10.4	80.0	17	4	US-08-866-108A-7190	Sequence 7190, Ap	681	10.4	80.0	57	2	US-08-465-594A-19	Sequence 19, Appl
c 609	10.4	80.0	17	4	US-09-866-108A-7191	Sequence 7191, Ap	682	10.4	80.0	57	3	US-08-973-124-204	Sequence 204, App
c 610	10.4	80.0	17	4	US-09-866-108A-7192	Sequence 7192, Ap	683	10.4	80.0	57	3	PCT-US96-08014-204	Sequence 204, App
c 611	10.4	80.0	17	4	US-09-866-108A-7193	Sequence 7193, Ap	c 684	10.4	80.0	58	3	US-08-782-480-55	Sequence 55, Appl

c 685	10.4	80.0	58	3	US-08-954-211-55	Sequence 55, Appl	758	10.4	80.0	61	4	US-09-254-968-57	Sequence 57, Appl
c 686	10.4	80.0	58	3	US-09-275-850-198	Sequence 198, App	759	10.4	80.0	61	4	US-09-254-968-105	Sequence 105, App
c 687	10.4	80.0	58	4	US-09-005-167A-55	Sequence 55, Appl	760	10.4	80.0	61	4	US-09-254-968-124	Sequence 124, App
c 688	10.4	80.0	58	4	US-09-176-741B-55	Sequence 55, Appl	761	10.4	80.0	61	4	US-09-849-928-298	Sequence 298, App
c 689	10.4	80.0	59	3	US-09-023-228B-101	Sequence 101, App	762	10.4	80.0	61	4	US-09-849-928-299	Sequence 299, App
c 690	10.4	80.0	59	4	US-09-163-025B-101	Sequence 101, App	763	10.4	80.0	61	4	US-09-849-928-307	Sequence 307, App
c 691	10.4	80.0	59	4	US-10-037-282-101	Sequence 101, App	764	10.4	80.0	61	4	US-09-849-928-333	Sequence 333, App
c 692	10.4	80.0	60	3	US-09-023-228B-36	Sequence 36, Appl	765	10.4	80.0	61	4	US-10-037-282-40	Sequence 40, Appl
c 693	10.4	80.0	60	3	US-09-023-228B-37	Sequence 37, Appl	766	10.4	80.0	61	4	US-10-037-282-41	Sequence 41, Appl
c 694	10.4	80.0	60	3	US-09-023-228B-87	Sequence 87, Appl	767	10.4	80.0	61	4	US-10-037-282-43	Sequence 43, Appl
c 695	10.4	80.0	60	3	US-09-023-228B-118	Sequence 118, App	768	10.4	80.0	61	4	US-10-037-282-45	Sequence 45, Appl
c 696	10.4	80.0	60	4	US-09-163-025B-36	Sequence 36, Appl	769	10.4	80.0	61	4	US-10-037-282-67	Sequence 67, Appl
c 697	10.4	80.0	60	4	US-09-163-025B-37	Sequence 37, Appl	770	10.4	80.0	61	4	US-10-037-282-68	Sequence 68, Appl
c 698	10.4	80.0	60	4	US-09-163-025B-87	Sequence 87, Appl	771	10.4	80.0	61	4	US-10-037-282-103	Sequence 103, App
c 699	10.4	80.0	60	4	US-09-163-025B-118	Sequence 118, App	772	10.4	80.0	61	4	US-10-037-282-108	Sequence 108, App
c 700	10.4	80.0	60	4	US-10-037-282-36	Sequence 36, Appl	773	10.4	80.0	61	4	US-10-037-282-109	Sequence 109, App
c 701	10.4	80.0	60	4	US-10-037-282-37	Sequence 37, Appl	774	10.4	80.0	61	4	US-10-037-282-111	Sequence 111, App
c 702	10.4	80.0	60	4	US-10-037-282-87	Sequence 87, Appl	775	10.4	80.0	61	4	US-10-037-282-112	Sequence 112, App
c 703	10.4	80.0	60	4	US-10-037-282-118	Sequence 118, App	776	10.4	80.0	61	4	US-10-037-282-113	Sequence 113, App
c 704	10.4	80.0	61	3	US-09-023-228B-40	Sequence 40, Appl	777	10.4	80.0	61	4	US-10-037-282-135	Sequence 135, App
c 705	10.4	80.0	61	3	US-09-023-228B-41	Sequence 41, Appl	778	10.4	80.0	61	4	US-10-037-282-151	Sequence 151, App
c 706	10.4	80.0	61	3	US-09-023-228B-43	Sequence 43, Appl	779	10.4	80.0	61	4	US-10-037-282-152	Sequence 152, App
c 707	10.4	80.0	61	3	US-09-023-228B-45	Sequence 45, Appl	780	10.4	80.0	61	4	US-10-037-282-155	Sequence 155, App
c 708	10.4	80.0	61	3	US-09-023-228B-67	Sequence 67, Appl	781	10.4	80.0	61	5	PCT-US96-09455A-298	Sequence 298, App
c 709	10.4	80.0	61	3	US-09-023-228B-68	Sequence 68, Appl	782	10.4	80.0	61	5	PCT-US96-09455A-299	Sequence 299, App
c 710	10.4	80.0	61	3	US-09-023-228B-103	Sequence 103, App	783	10.4	80.0	61	5	PCT-US96-09455A-303	Sequence 303, App
c 711	10.4	80.0	61	3	US-09-023-228B-108	Sequence 108, App	784	10.4	80.0	61	5	PCT-US96-09455A-333	Sequence 333, App
c 712	10.4	80.0	61	3	US-09-023-228B-111	Sequence 111, App	785	10.4	80.0	62	3	US-09-023-228B-44	Sequence 44, Appl
c 713	10.4	80.0	61	3	US-09-023-228B-112	Sequence 112, App	786	10.4	80.0	62	3	US-09-023-228B-84	Sequence 84, Appl
c 714	10.4	80.0	61	3	US-09-023-228B-113	Sequence 113, App	787	10.4	80.0	62	3	US-09-023-228B-102	Sequence 102, App
c 715	10.4	80.0	61	3	US-09-023-228B-135	Sequence 135, App	788	10.4	80.0	62	3	US-09-023-228B-109	Sequence 109, App
c 716	10.4	80.0	61	3	US-09-023-228B-151	Sequence 151, App	789	10.4	80.0	62	4	US-09-163-025B-44	Sequence 44, Appl
c 717	10.4	80.0	61	3	US-09-023-228B-152	Sequence 152, App	790	10.4	80.0	62	4	US-09-163-025B-84	Sequence 84, Appl
c 718	10.4	80.0	61	3	US-09-023-228B-155	Sequence 155, App	791	10.4	80.0	62	4	US-09-163-025B-102	Sequence 102, App
c 719	10.4	80.0	61	3	US-08-870-930-14	Sequence 14, Appl	792	10.4	80.0	62	4	US-10-037-282-44	Sequence 44, Appl
c 720	10.4	80.0	61	3	US-08-870-930-16	Sequence 16, Appl	793	10.4	80.0	62	4	US-10-037-282-84	Sequence 84, Appl
c 721	10.4	80.0	61	3	US-08-870-930-28	Sequence 28, Appl	794	10.4	80.0	62	4	US-10-037-282-102	Sequence 102, App
c 722	10.4	80.0	61	3	US-08-870-930-36	Sequence 36, Appl	795	10.4	80.0	64	3	US-09-023-228B-144	Sequence 144, App
c 723	10.4	80.0	61	3	US-08-870-930-50	Sequence 50, Appl	796	10.4	80.0	64	4	US-09-163-025B-144	Sequence 144, App
c 724	10.4	80.0	61	3	US-08-870-930-53	Sequence 53, Appl	797	10.4	80.0	64	4	US-10-037-282-144	Sequence 144, App
c 725	10.4	80.0	61	3	US-09-275-850-51	Sequence 51, Appl	798	10.4	80.0	65	3	US-09-023-228B-128	Sequence 128, App
c 726	10.4	80.0	61	3	US-09-275-850-53	Sequence 53, Appl	799	10.4	80.0	65	3	US-09-275-850-292	Sequence 292, App
c 727	10.4	80.0	61	3	US-09-275-850-60	Sequence 60, Appl	800	10.4	80.0	65	4	US-09-163-025B-128	Sequence 128, App
c 728	10.4	80.0	61	3	US-09-275-850-73	Sequence 73, Appl	801	10.4	80.0	65	4	US-10-037-282-128	Sequence 128, App
c 729	10.4	80.0	61	3	US-09-275-850-76	Sequence 74, Appl	802	10.4	80.0	67	2	US-08-477-527A-44	Sequence 44, Appl
c 730	10.4	80.0	61	3	US-09-275-850-76	Sequence 76, Appl	803	10.4	80.0	67	2	US-08-477-527A-44	Sequence 44, Appl
c 731	10.4	80.0	61	3	US-09-275-850-331	Sequence 331, App	804	10.4	80.0	67	5	PCT-US96-09537-44	Sequence 44, Appl
c 732	10.4	80.0	61	3	US-08-952-793-298	Sequence 298, App	805	10.4	80.0	70	2	US-08-488-402A-14	Sequence 14, App
c 733	10.4	80.0	61	3	US-08-952-793-299	Sequence 299, App	806	10.4	80.0	70	2	US-08-488-402A-132	Sequence 132, App
c 734	10.4	80.0	61	3	US-08-952-793-307	Sequence 307, App	807	10.4	80.0	70	2	US-08-484-552A-14	Sequence 14, App
c 735	10.4	80.0	61	3	US-08-952-793-333	Sequence 333, App	808	10.4	80.0	70	2	US-08-484-552A-132	Sequence 132, App
c 736	10.4	80.0	61	4	US-09-364-539-28	Sequence 28, Appl	809	10.4	80.0	70	2	US-08-477-527A-28	Sequence 28, App
c 737	10.4	80.0	61	4	US-09-163-025B-40	Sequence 40, Appl	810	10.4	80.0	70	2	US-08-477-527A-35	Sequence 35, Appl
c 738	10.4	80.0	61	4	US-09-163-025B-41	Sequence 41, Appl	811	10.4	80.0	70	2	US-08-477-527A-36	Sequence 36, Appl
c 739	10.4	80.0	61	4	US-09-163-025B-43	Sequence 43, Appl	812	10.4	80.0	70	2	US-08-477-527A-41	Sequence 41, Appl
c 740	10.4	80.0	61	4	US-09-163-025B-45	Sequence 45, Appl	813	10.4	80.0	70	2	US-08-477-527A-47	Sequence 47, Appl
c 741	10.4	80.0	61	4	US-09-163-025B-67	Sequence 67, Appl	814	10.4	80.0	70	3	US-08-477-527A-28	Sequence 28, App
c 742	10.4	80.0	61	4	US-09-163-025B-68	Sequence 68, Appl	815	10.4	80.0	70	3	US-08-481-710-28	Sequence 28, App
c 743	10.4	80.0	61	4	US-09-163-025B-103	Sequence 103, App	816	10.4	80.0	70	3	US-08-481-710-35	Sequence 35, Appl
c 744	10.4	80.0	61	4	US-09-163-025B-108	Sequence 108, App	817	10.4	80.0	70	3	US-08-481-710-36	Sequence 36, Appl
c 745	10.4	80.0	61	4	US-09-163-025B-109	Sequence 109, App	818	10.4	80.0	70	3	US-08-481-710-41	Sequence 41, Appl
c 746	10.4	80.0	61	4	US-09-163-025B-111	Sequence 111, App	819	10.4	80.0	70	3	US-08-481-710-46	Sequence 46, Appl
c 747	10.4	80.0	61	4	US-09-163-025B-112	Sequence 112, App	820	10.4	80.0	70	3	US-08-481-710-47	Sequence 47, Appl
c 748	10.4	80.0	61	4	US-09-163-025B-113	Sequence 113, App	821	10.4	80.0	70	5	PCT-US96-09472-14	Sequence 14, App
c 749	10.4	80.0	61	4	US-09-163-025B-135	Sequence 135, App	822	10.4	80.0	70	5	PCT-US96-09472-132	Sequence 132, App
c 750	10.4	80.0	61	4	US-09-163-025B-151	Sequence 151, App	823	10.4	80.0	70	5	PCT-US96-09537-28	Sequence 28, App
c 751	10.4	80.0	61	4	US-09-163-025B-152	Sequence 152, App	824	10.4	80.0	70	5	PCT-US96-09537-35	Sequence 35, Appl
c 752	10.4	80.0	61	4	US-09-163-025B-155	Sequence 155, App	825	10.4	80.0	70	5	PCT-US96-09537-36	Sequence 36, Appl
c 753	10.4	80.0	61	4	US-09-254-968-17	Sequence 17, Appl	826	10.4	80.0	70	5	PCT-US96-09537-41	Sequence 41, Appl
c 754	10.4	80.0	61	4	US-09-254-968-19	Sequence 19, Appl	827	10.4	80.0	70	5	PCT-US96-09537-46	Sequence 46, Appl
c 755	10.4	80.0	61	4	US-09-254-968-31	Sequence 31, Appl	828	10.4	80.0	71	1	PCT-US96-09537-47	Sequence 47, Appl
c 756	10.4	80.0	61	4	US-09-254-968-39	Sequence 39, Appl	829	10.4	80.0	71	1	US-08-317-403A-9	Sequence 9, Appl
c 757	10.4	80.0	61	4	US-09-254-968-53	Sequence 53, Appl	830	10.4	80.0	71	1	US-08-317-403A-11	Sequence 11, Appl

831	10.4	80.0	71	1	US-08-317-403A-21	Sequence 21, Appl	904	10.4	80.0	81	2	US-08-233-012C-68	Sequence 68, Appl
832	10.4	80.0	71	1	US-08-471-985A-9	Sequence 9, Appl	905	10.4	80.0	81	2	US-08-233-012C-106	Sequence 106, Appl
833	10.4	80.0	71	1	US-08-471-985A-11	Sequence 11, Appl	906	10.4	80.0	81	2	US-08-233-012C-107	Sequence 107, Appl
834	10.4	80.0	71	1	US-08-471-985A-21	Sequence 21, Appl	907	10.4	80.0	85	1	US-08-339-412A-86	Sequence 86, Appl
835	10.4	80.0	71	2	US-08-477-527A-21	Sequence 21, Appl	908	10.4	80.0	90	1	US-08-317-403A-17	Sequence 17, Appl
836	10.4	80.0	71	2	US-08-477-527A-43	Sequence 43, Appl	909	10.4	80.0	90	1	US-08-471-985A-17	Sequence 17, Appl
837	10.4	80.0	71	2	US-08-477-527A-45	Sequence 45, Appl	910	10.4	80.0	90	5	PCT-US95-12401A-17	Sequence 17, Appl
838	10.4	80.0	71	2	US-08-477-527A-48	Sequence 48, Appl	911	10.4	80.0	91	1	US-08-317-403A-36	Sequence 36, Appl
839	10.4	80.0	71	2	US-08-477-527A-59	Sequence 59, Appl	912	10.4	80.0	91	1	US-08-317-403A-38	Sequence 38, Appl
840	10.4	80.0	71	2	US-08-477-527A-64	Sequence 64, Appl	913	10.4	80.0	91	1	US-08-471-985A-36	Sequence 36, Appl
841	10.4	80.0	71	2	US-08-477-527A-65	Sequence 65, Appl	914	10.4	80.0	91	1	US-08-471-985A-38	Sequence 38, Appl
842	10.4	80.0	71	3	US-08-481-710-21	Sequence 21, Appl	915	10.4	80.0	91	5	PCT-US95-12401A-36	Sequence 36, Appl
843	10.4	80.0	71	3	US-08-481-710-43	Sequence 43, Appl	916	10.4	80.0	91	5	PCT-US95-12401A-38	Sequence 38, Appl
844	10.4	80.0	71	3	US-08-481-710-45	Sequence 45, Appl	917	10.4	80.0	96	1	US-08-475-000-6	Sequence 6, Appl
845	10.4	80.0	71	3	US-08-481-710-48	Sequence 48, Appl	918	10.4	80.0	96	2	US-08-483-199-6	Sequence 6, Appl
846	10.4	80.0	71	3	US-08-481-710-59	Sequence 59, Appl	919	10.4	80.0	96	2	US-08-484-508-6	Sequence 6, Appl
847	10.4	80.0	71	3	US-08-481-710-64	Sequence 64, Appl	920	10.4	80.0	112	1	US-07-634-278-76	Sequence 76, Appl
848	10.4	80.0	71	3	US-08-481-710-65	Sequence 65, Appl	921	10.4	80.0	112	1	US-08-477-728-76	Sequence 76, Appl
849	10.4	80.0	71	3	US-08-870-930-39	Sequence 39, Appl	922	10.4	80.0	112	1	US-08-474-040-76	Sequence 76, Appl
850	10.4	80.0	71	3	US-08-952-793-305	Sequence 305, Appl	923	10.4	80.0	112	1	US-08-487-200-76	Sequence 76, Appl
851	10.4	80.0	71	3	US-08-952-793-334	Sequence 334, Appl	924	10.4	80.0	112	3	US-08-484-537-76	Sequence 76, Appl
852	10.4	80.0	71	4	US-09-363-939A-75	Sequence 75, Appl	925	10.4	80.0	112	4	US-09-556-002-18	Sequence 18, Appl
853	10.4	80.0	71	4	US-09-363-939A-77	Sequence 77, Appl	926	10.4	80.0	120	4	US-09-866-108A-15689	Sequence 15689, A
854	10.4	80.0	71	4	US-09-254-968-42	Sequence 42, Appl	927	10.4	80.0	134	1	US-07-634-278-113	Sequence 113, Appl
855	10.4	80.0	71	4	US-09-254-968-114	Sequence 114, Appl	928	10.4	80.0	134	1	US-08-477-728-113	Sequence 113, Appl
856	10.4	80.0	71	4	US-09-254-968-117	Sequence 117, Appl	929	10.4	80.0	134	1	US-08-474-040-113	Sequence 113, Appl
857	10.4	80.0	71	4	US-09-254-968-120	Sequence 120, Appl	930	10.4	80.0	134	1	US-08-487-200-113	Sequence 113, Appl
858	10.4	80.0	71	4	US-09-849-928-305	Sequence 305, Appl	931	10.4	80.0	134	3	US-08-484-537-113	Sequence 113, Appl
859	10.4	80.0	71	4	US-09-849-928-334	Sequence 334, Appl	932	10.4	80.0	134	5	PCT-US95-09641-11	Sequence 11, Appl
860	10.4	80.0	71	5	PCT-US95-12401A-9	Sequence 9, Appl	933	10.4	80.0	137	1	US-08-458-516-17	Sequence 17, Appl
861	10.4	80.0	71	5	PCT-US95-12401A-11	Sequence 11, Appl	934	10.4	80.0	140	3	US-08-690-102A-11	Sequence 11, Appl
862	10.4	80.0	71	5	PCT-US95-12401A-21	Sequence 21, Appl	935	10.4	80.0	140	3	US-08-782-480-9	Sequence 9, Appl
863	10.4	80.0	71	5	PCT-US96-09455A-305	Sequence 305, Appl	936	10.4	80.0	140	3	US-09-127-902-11	Sequence 11, Appl
864	10.4	80.0	71	5	PCT-US96-09455A-334	Sequence 334, Appl	937	10.4	80.0	140	3	US-08-954-211-9	Sequence 9, Appl
865	10.4	80.0	71	5	PCT-US96-09537-21	Sequence 21, Appl	938	10.4	80.0	140	3	US-09-155-107-23	Sequence 23, Appl
866	10.4	80.0	71	5	PCT-US96-09537-43	Sequence 43, Appl	939	10.4	80.0	140	4	US-09-005-167A-9	Sequence 9, Appl
867	10.4	80.0	71	5	PCT-US96-09537-45	Sequence 45, Appl	940	10.4	80.0	140	4	US-09-176-741B-9	Sequence 9, Appl
868	10.4	80.0	71	5	PCT-US96-09537-48	Sequence 48, Appl	941	10.4	80.0	144	4	US-09-132-316-62	Sequence 62, Appl
869	10.4	80.0	71	5	PCT-US96-09537-59	Sequence 59, Appl	942	10.4	80.0	144	4	US-09-132-316-63	Sequence 63, Appl
870	10.4	80.0	71	5	PCT-US96-09537-64	Sequence 64, Appl	943	10.4	80.0	155	4	US-09-132-316-61	Sequence 61, Appl
871	10.4	80.0	71	5	PCT-US96-09537-65	Sequence 65, Appl	944	10.4	80.0	160	4	US-09-866-108A-15681	Sequence 15681, A
872	10.4	80.0	73	2	US-08-465-591A-33	Sequence 33, Appl	945	10.4	80.0	178	4	US-09-680-420A-16	Sequence 16, Appl
873	10.4	80.0	73	2	US-08-465-591A-33	Sequence 33, Appl	946	10.4	80.0	190	3	US-07-987-264-40	Sequence 40, Appl
874	10.4	80.0	73	2	US-08-973-124-218	Sequence 218, Appl	947	10.4	80.0	200	4	US-09-132-316-58	Sequence 58, Appl
875	10.4	80.0	73	5	PCT-US96-08014-218	Sequence 218, Appl	948	10.4	80.0	203	1	US-08-158-189-10	Sequence 10, Appl
876	10.4	80.0	75	2	US-07-916-098A-19	Sequence 19, Appl	949	10.4	80.0	203	1	US-08-158-189-11	Sequence 11, Appl
877	10.4	80.0	75	2	US-07-916-098A-20	Sequence 20, Appl	950	10.4	80.0	212	3	US-09-008-892-8	Sequence 8, Appl
878	10.4	80.0	75	3	US-08-952-793-328	Sequence 328, Appl	951	10.4	80.0	215	3	US-08-782-480-8	Sequence 8, Appl
879	10.4	80.0	75	4	US-09-849-928-328	Sequence 328, Appl	952	10.4	80.0	215	3	US-08-954-211-8	Sequence 8, Appl
880	10.4	80.0	75	5	PCT-US96-09455A-328	Sequence 328, Appl	953	10.4	80.0	215	4	US-09-005-167A-8	Sequence 8, Appl
881	10.4	80.0	77	2	US-08-477-527A-50	Sequence 50, Appl	954	10.4	80.0	215	4	US-09-176-741B-8	Sequence 8, Appl
882	10.4	80.0	77	3	US-08-481-710-50	Sequence 50, Appl	955	10.4	80.0	234	4	US-09-016-434-260	Sequence 260, Appl
883	10.4	80.0	77	5	PCT-US96-09537-50	Sequence 50, Appl	956	10.4	80.0	234	4	US-09-621-976-15669	Sequence 15669, A
884	10.4	80.0	78	2	US-08-379-057-52	Sequence 52, Appl	957	10.4	80.0	237	4	US-09-634-238-166	Sequence 166, Appl
885	10.4	80.0	79	1	US-08-447-169A-105	Sequence 105, Appl	958	10.4	80.0	237	4	US-08-956-171E-4566	Sequence 4566, Ap
886	10.4	80.0	79	2	US-08-233-012C-105	Sequence 105, Appl	959	10.4	80.0	239	4	US-09-702-705-1710	Sequence 1710, Ap
887	10.4	80.0	79	3	US-09-023-228B-8	Sequence 8, Appl	960	10.4	80.0	239	4	US-09-736-457-1710	Sequence 4570, Ap
888	10.4	80.0	79	4	US-09-163-025B-8	Sequence 8, Appl	961	10.4	80.0	239	4	US-08-956-171E-4543	Sequence 4543, Ap
889	10.4	80.0	79	4	US-10-037-282-8	Sequence 8, Appl	962	10.4	80.0	239	4	US-08-956-171E-4544	Sequence 4544, Ap
890	10.4	80.0	80	1	US-08-447-169A-65	Sequence 65, Appl	963	10.4	80.0	239	4	US-09-671-325-1710	Sequence 1710, Ap
891	10.4	80.0	80	1	US-08-447-169A-70	Sequence 70, Appl	964	10.4	80.0	241	4	US-09-389-681-345	Sequence 345, Appl
892	10.4	80.0	80	1	US-08-447-169A-110	Sequence 110, Appl	965	10.4	80.0	241	4	US-09-620-405B-345	Sequence 345, Appl
893	10.4	80.0	80	2	US-08-233-012C-65	Sequence 65, Appl	966	10.4	80.0	241	4	US-09-433-826B-345	Sequence 345, Appl
894	10.4	80.0	80	2	US-08-233-012C-70	Sequence 70, Appl	967	10.4	80.0	241	4	US-09-604-287A-345	Sequence 345, Appl
895	10.4	80.0	80	2	US-08-233-012C-110	Sequence 110, Appl	968	10.4	80.0	241	4	US-09-834-759-345	Sequence 345, Appl
896	10.4	80.0	81	1	US-08-399-412A-87	Sequence 87, Appl	969	10.4	80.0	247	4	US-09-016-434-87	Sequence 87, Appl
897	10.4	80.0	81	1	US-08-447-169A-66	Sequence 66, Appl	970	10.4	80.0	249	1	US-07-624-313-2	Sequence 2, Appl
898	10.4	80.0	81	1	US-08-447-169A-67	Sequence 67, Appl	971	10.4	80.0	249	4	US-09-540-236-574	Sequence 574, Appl
899	10.4	80.0	81	1	US-08-447-169A-68	Sequence 68, Appl	972	10.4	80.0	260	4	US-08-956-171E-4505	Sequence 4505, Ap
900	10.4	80.0	81	1	US-08-447-169A-106	Sequence 106, Appl	973	10.4	80.0	272	4	US-09-313-294A-1222	Sequence 1222, Ap
901	10.4	80.0	81	1	US-08-447-169A-107	Sequence 107, Appl	974	10.4	80.0	273	4	US-09-313-294A-1933	Sequence 1933, Ap
902	10.4	80.0	81	2	US-08-233-012C-66	Sequence 66, Appl	975	10.4	80.0	276	4	US-09-313-294A-3244	Sequence 3244, Ap
903	10.4	80.0	81	2	US-08-233-012C-67	Sequence 67, Appl	976	10.4	80.0	276	4	US-09-313-294A-3437	Sequence 3437, Ap



977	10.4	80.0	279	3	US-09-188-930-89	Sequence 89, Appl	1050	10.4	80.0	363	1	US-08-208-886C-1	Sequence 1, Appl
978	10.4	80.0	279	3	US-09-312-283C-89	Sequence 89, Appl	c1051	10.4	80.0	363	1	US-08-407-344-5	Sequence 5, Appl
979	10.4	80.0	286	3	US-08-782-480-13	Sequence 13, Appl	1052	10.4	80.0	363	1	US-08-331-398A-19	Sequence 19, Appl
980	10.4	80.0	286	3	US-08-954-211-13	Sequence 13, Appl	1053	10.4	80.0	363	1	US-08-704-744-1	Sequence 1, Appl
981	10.4	80.0	286	3	US-09-005-467A-13	Sequence 13, Appl	1054	10.4	80.0	363	1	US-08-469-557-1	Sequence 1, Appl
982	10.4	80.0	286	4	US-09-176-741B-13	Sequence 13, Appl	1055	10.4	80.0	363	2	US-08-290-793B-1	Sequence 1, Appl
983	10.4	80.0	289	4	US-09-313-294A-2185	Sequence 2185, Ap	1056	10.4	80.0	363	2	US-08-331-397B-19	Sequence 19, Appl
984	10.4	80.0	294	4	US-09-313-294A-4036	Sequence 4036, Ap	1057	10.4	80.0	363	2	US-08-759-804A-19	Sequence 19, Appl
c 985	10.4	80.0	294	4	US-09-621-976-2222	Sequence 2222, Ap	1058	10.4	80.0	363	2	US-09-227-693-19	Sequence 19, Appl
c 986	10.4	80.0	299	4	US-09-016-434-620	Sequence 620, App	1059	10.4	80.0	368	2	US-08-650-262-3	Sequence 3, Appl
987	10.4	80.0	300	4	US-09-016-434-984	Sequence 984, App	c1060	10.4	80.0	369	4	US-09-132-316-59	Sequence 59, Appl
988	10.4	80.0	300	4	US-09-023-655-831	Sequence 831, App	1061	10.4	80.0	371	1	US-08-592-126-103	Sequence 103, App
c 989	10.4	80.0	301	4	US-09-439-313-237	Sequence 237, App	1062	10.4	80.0	371	2	US-08-687-080-46	Sequence 46, Appl
c 990	10.4	80.0	301	4	US-09-352-616A-237	Sequence 237, App	1063	10.4	80.0	371	4	US-09-168-595-103	Sequence 103, App
c 991	10.4	80.0	301	4	US-09-232-149A-237	Sequence 237, App	1064	10.4	80.0	373	2	US-08-581-240-1	Sequence 1, Appl
c 992	10.4	80.0	301	4	US-09-313-294A-5981	Sequence 5981, Ap	1065	10.4	80.0	373	2	US-08-616-392C-1	Sequence 1, Appl
c 993	10.4	80.0	301	4	US-09-159-812-237	Sequence 237, App	1066	10.4	80.0	373	4	US-08-969-987-1	Sequence 1, Appl
c 994	10.4	80.0	301	4	US-09-636-215-237	Sequence 237, App	1067	10.4	80.0	381	4	US-08-956-171E-4023	Sequence 4023, Ap
c 995	10.4	80.0	301	4	US-09-685-166A-237	Sequence 237, App	1068	10.4	80.0	394	3	US-08-134-346A-14	Sequence 14, Appl
c 996	10.4	80.0	301	4	US-09-688-489-237	Sequence 237, App	1069	10.4	80.0	396	4	US-09-640-173-23	Sequence 23, Appl
c 997	10.4	80.0	302	4	US-09-313-294A-4085	Sequence 4085, Ap	1070	10.4	80.0	396	4	US-09-713-550-23	Sequence 23, Appl
998	10.4	80.0	304	4	US-09-313-294A-57	Sequence 57, Appl	c1071	10.4	80.0	396	4	US-09-540-236-1075	Sequence 1075, Ap
c 999	10.4	80.0	304	4	US-09-313-294A-7143	Sequence 7143, Ap	c1072	10.4	80.0	399	4	US-09-439-313-395	Sequence 395, App
c1000	10.4	80.0	305	4	US-09-132-316-47	Sequence 47, Appl	c1073	10.4	80.0	399	4	US-09-352-616A-395	Sequence 395, App
c1001	10.4	80.0	306	4	US-09-313-294A-55	Sequence 55, Appl	c1074	10.4	80.0	399	4	US-09-636-215-395	Sequence 395, App
c1002	10.4	80.0	310	4	US-09-313-294A-479	Sequence 479, App	c1075	10.4	80.0	399	4	US-09-685-166A-395	Sequence 395, App
c1003	10.4	80.0	313	4	US-09-023-655-837	Sequence 837, App	c1076	10.4	80.0	400	4	US-08-956-171E-3542	Sequence 3542, Ap
c1004	10.4	80.0	327	4	US-08-956-171E-4372	Sequence 4372, Ap	1077	10.4	80.0	400	4	US-08-956-171E-3631	Sequence 3631, Ap
c1005	10.4	80.0	331	4	US-09-300-588A-26	Sequence 26, Appl	1078	10.4	80.0	400	4	US-08-956-171E-3660	Sequence 3660, Ap
c1006	10.4	80.0	333	4	US-09-132-316-48	Sequence 48, Appl	1079	10.4	80.0	400	4	US-08-956-171E-3702	Sequence 3702, Ap
1007	10.4	80.0	333	4	US-08-956-171E-4228	Sequence 4228, Ap	c1080	10.4	80.0	400	4	US-08-956-171E-3723	Sequence 3723, Ap
c1008	10.4	80.0	339	1	US-07-789-344A-9	Sequence 9, Appl	c1081	10.4	80.0	400	4	US-08-956-171E-3742	Sequence 3742, Ap
c1009	10.4	80.0	339	3	US-09-060-756-257	Sequence 257, App	1082	10.4	80.0	400	4	US-08-956-171E-3751	Sequence 3751, Ap
c1010	10.4	80.0	339	4	US-09-670-314-257	Sequence 257, App	1083	10.4	80.0	400	4	US-08-956-171E-3763	Sequence 3763, Ap
1011	10.4	80.0	339	4	US-08-956-171E-4263	Sequence 4263, Ap	1084	10.4	80.0	400	4	US-08-956-171E-3891	Sequence 3891, Ap
1012	10.4	80.0	340	4	US-09-702-705-34	Sequence 34, Appl	1085	10.4	80.0	400	4	US-08-956-171E-3956	Sequence 3956, Ap
1013	10.4	80.0	340	4	US-09-736-457-34	Sequence 34, Appl	1086	10.4	80.0	400	4	US-08-956-171E-3968	Sequence 3968, Ap
1014	10.4	80.0	340	4	US-09-614-124B-34	Sequence 34, Appl	1087	10.4	80.0	400	4	US-08-956-171E-3979	Sequence 3979, Ap
1015	10.4	80.0	340	4	US-09-671-325-34	Sequence 34, Appl	1088	10.4	80.0	400	4	US-08-956-171E-4198	Sequence 4198, Ap
1016	10.4	80.0	340	4	US-09-589-184-34	Sequence 34, Appl	c1089	10.4	80.0	400	4	US-08-956-171E-4234	Sequence 4234, Ap
1017	10.4	80.0	348	1	US-08-650-102A-7	Sequence 7, Appl	1090	10.4	80.0	401	4	US-09-976-594-44	Sequence 44, Appl
1018	10.4	80.0	348	2	US-08-888-366-9	Sequence 9, Appl	c1091	10.4	80.0	403	4	US-09-132-316-38	Sequence 38, Appl
1019	10.4	80.0	348	2	US-08-888-366-11	Sequence 11, Appl	1092	10.4	80.0	403	3	US-08-619-491-3	Sequence 3, Appl
1020	10.4	80.0	348	3	US-09-127-902-7	Sequence 7, Appl	1093	10.4	80.0	405	3	US-08-579-378A-15	Sequence 15, Appl
1021	10.4	80.0	348	3	US-09-155-107-7	Sequence 7, Appl	1094	10.4	80.0	405	5	PCT-US95-07302-3	Sequence 3, Appl
1022	10.4	80.0	348	5	PCT-US95-09641-7	Sequence 7, Appl	1095	10.4	80.0	407	2	US-08-616-392C-11	Sequence 11, Appl
1023	10.4	80.0	354	1	US-08-326-362-1	Sequence 1, Appl	1096	10.4	80.0	407	3	US-09-221-298-17	Sequence 17, Appl
1024	10.4	80.0	354	2	US-08-428-257A-77	Sequence 77, Appl	1097	10.4	80.0	407	4	US-09-401-064-17	Sequence 17, Appl
1025	10.4	80.0	354	2	US-07-987-264-59	Sequence 59, Appl	1098	10.4	80.0	409	4	US-09-450-520A-7	Sequence 7, Appl
c1026	10.4	80.0	354	3	US-09-214-214A-4	Sequence 4, Appl	1099	10.4	80.0	411	1	US-08-331-398A-57	Sequence 57, Appl
c1027	10.4	80.0	354	3	US-09-255-953-4	Sequence 4, Appl	1100	10.4	80.0	411	2	US-08-331-397B-57	Sequence 57, Appl
c1028	10.4	80.0	354	4	US-09-872-090-4	Sequence 4, Appl	1101	10.4	80.0	411	2	US-08-759-804A-56	Sequence 56, Appl
c1029	10.4	80.0	354	4	US-09-745-032-4	Sequence 4, Appl	1102	10.4	80.0	411	4	US-08-956-171E-4353	Sequence 4353, Ap
1030	10.4	80.0	354	4	US-09-800-729-157	Sequence 157, App	1103	10.4	80.0	413	1	US-08-253-877C-56	Sequence 56, Appl
1031	10.4	80.0	357	5	PCT-US93-08435-9	Sequence 9, Appl	1104	10.4	80.0	413	2	US-08-452-164A-56	Sequence 56, Appl
1032	10.4	80.0	357	1	US-08-475-000-15	Sequence 15, Appl	1105	10.4	80.0	414	2	US-08-379-057-13	Sequence 13, Appl
1033	10.4	80.0	357	2	US-08-483-199-15	Sequence 15, Appl	1106	10.4	80.0	416	4	US-08-976-183A-30	Sequence 30, Appl
1034	10.4	80.0	357	2	US-08-859-649-26	Sequence 26, Appl	1107	10.4	80.0	418	1	US-07-977-696C-27	Sequence 27, Appl
1035	10.4	80.0	357	2	US-08-484-508-15	Sequence 15, Appl	1108	10.4	80.0	418	1	US-08-129-930B-27	Sequence 27, Appl
1036	10.4	80.0	357	4	US-08-207-861-26	Sequence 26, Appl	1109	10.4	80.0	418	4	US-08-976-288A-27	Sequence 27, Appl
1037	10.4	80.0	357	4	US-09-406-535-1	Sequence 1, Appl	c1110	10.4	80.0	419	4	US-09-621-976-7894	Sequence 7894, Ap
1038	10.4	80.0	357	4	US-08-859-648-26	Sequence 26, Appl	1111	10.4	80.0	421	3	US-08-782-480-7	Sequence 7, Appl
1039	10.4	80.0	358	2	US-07-916-098A-23	Sequence 23, Appl	1112	10.4	80.0	421	3	US-08-954-211-7	Sequence 7, Appl
1040	10.4	80.0	358	4	US-09-621-976-15546	Sequence 15546, A	1113	10.4	80.0	421	4	US-09-005-167A-7	Sequence 7, Appl
c1041	10.4	80.0	360	1	US-08-215-138-23	Sequence 23, Appl	1114	10.4	80.0	421	4	US-09-176-741B-7	Sequence 7, Appl
c1042	10.4	80.0	360	1	US-08-407-344-23	Sequence 23, Appl	c1115	10.4	80.0	424	4	US-09-621-976-18671	Sequence 18671, A
c1043	10.4	80.0	360	3	US-09-214-214A-2	Sequence 2, Appl	1116	10.4	80.0	424	1	US-08-691-641-2	Sequence 2, Appl
c1044	10.4	80.0	360	3	US-09-255-953-2	Sequence 2, Appl	c1117	10.4	80.0	424	4	US-09-132-316-26	Sequence 26, Appl
c1045	10.4	80.0	360	4	US-09-872-090-2	Sequence 2, Appl	c1118	10.4	80.0	426	1	US-09-621-976-7864	Sequence 7864, Ap
c1046	10.4	80.0	360	4	US-09-745-032-2	Sequence 2, Appl	c1119	10.4	80.0	432	1	US-08-423-383-19	Sequence 19, Appl
c1047	10.4	80.0	361	3	US-08-905-223-220	Sequence 220, App	c1120	10.4	80.0	432	2	US-08-437-353A-19	Sequence 19, Appl
1048	10.4	80.0	361	4	US-08-956-171E-3947	Sequence 3947, Ap	c1121	10.4	80.0	433	4	US-09-132-316-22	Sequence 22, Appl
c1049	10.4	80.0	363	1	US-08-215-138-5	Sequence 5, Appl	1122	10.4	80.0	444	1	US-07-826-928A-38	Sequence 38, Appl

c1123	10.4	80.0	444	4	US-09-132-316-57	Sequence 57, Appl	1196	10.4	80.0	515	4	US-09-338-933-160	Sequence 160, App
c1124	10.4	80.0	445	1	US-08-053-171-10	Sequence 10, Appl	1197	10.4	80.0	515	4	US-09-702-705-1090	Sequence 1090, App
c1125	10.4	80.0	446	4	US-09-621-976-18506	Sequence 18506, A	1198	10.4	80.0	515	4	US-09-736-457-1090	Sequence 1090, App
c1126	10.4	80.0	451	4	US-09-404-879A-103	Sequence 103, Appl	1199	10.4	80.0	515	4	US-09-215-681-160	Sequence 160, App
c1127	10.4	80.0	451	4	US-09-338-933-103	Sequence 103, Appl	1200	10.4	80.0	515	4	US-09-614-124B-1090	Sequence 1090, App
c1128	10.4	80.0	451	4	US-09-215-681-103	Sequence 103, Appl	1201	10.4	80.0	515	4	US-09-671-325-1090	Sequence 1090, App
c1129	10.4	80.0	451	4	US-09-216-003A-103	Sequence 103, Appl	1202	10.4	80.0	515	4	US-09-216-003A-160	Sequence 160, App
c1130	10.4	80.0	451	4	US-09-621-976-1341	Sequence 1341, Appl	1203	10.4	80.0	515	1	US-08-339-582-1	Sequence 1, Appl
c1131	10.4	80.0	452	4	US-09-300-958A-29	Sequence 29, Appl	1204	10.4	80.0	526	4	US-09-220-132-147	Sequence 147, App
c1132	10.4	80.0	453	4	US-09-621-976-10599	Sequence 10599, A	c1205	10.4	80.0	546	4	US-09-833-381-1516	Sequence 1516, App
c1133	10.4	80.0	457	4	US-08-956-171E-3804	Sequence 3804, App	1206	10.4	80.0	553	4	US-09-222-575-152	Sequence 152, App
c1134	10.4	80.0	458	4	US-09-702-705-345	Sequence 345, App	1207	10.4	80.0	553	4	US-09-389-681-152	Sequence 152, App
c1135	10.4	80.0	458	4	US-09-736-457-345	Sequence 345, App	1208	10.4	80.0	553	4	US-09-620-405B-152	Sequence 152, App
c1136	10.4	80.0	458	4	US-09-614-124B-345	Sequence 345, App	1209	10.4	80.0	553	4	US-09-339-338-152	Sequence 152, App
c1137	10.4	80.0	458	4	US-09-671-325-345	Sequence 345, App	1210	10.4	80.0	553	4	US-09-433-826B-152	Sequence 152, App
c1138	10.4	80.0	458	4	US-09-589-184-345	Sequence 345, App	1211	10.4	80.0	553	4	US-09-604-287A-152	Sequence 152, App
c1139	10.4	80.0	461	2	US-07-916-088A-39	Sequence 39, Appl	1212	10.4	80.0	553	4	US-09-285-480-152	Sequence 152, App
c1140	10.4	80.0	462	4	US-09-621-976-1777	Sequence 1777, App	1213	10.4	80.0	553	4	US-08-956-171E-3690	Sequence 3690, App
c1141	10.4	80.0	462	4	US-09-621-976-10781	Sequence 10781, A	1214	10.4	80.0	553	4	US-09-834-759-152	Sequence 152, App
c1142	10.4	80.0	465	4	US-09-621-976-2488	Sequence 2488, App	c1215	10.4	80.0	556	4	US-09-621-976-2579	Sequence 2579, App
c1143	10.4	80.0	467	4	US-09-450-972-1	Sequence 1, Appl	c1216	10.4	80.0	559	4	US-09-597-771-31	Sequence 31, Appl
c1144	10.4	80.0	468	4	US-09-132-316-9	Sequence 9, Appl	c1217	10.4	80.0	572	3	US-09-385-982-441	Sequence 441, App
c1145	10.4	80.0	469	1	US-08-468-347-23	Sequence 23, Appl	c1218	10.4	80.0	573	4	US-09-389-681-436	Sequence 436, App
c1146	10.4	80.0	469	1	US-08-226-264-25	Sequence 25, Appl	c1219	10.4	80.0	573	4	US-09-620-405B-436	Sequence 436, App
c1147	10.4	80.0	469	1	US-08-467-389-23	Sequence 23, Appl	c1220	10.4	80.0	573	4	US-09-433-826B-436	Sequence 436, App
c1148	10.4	80.0	469	2	US-08-779-379-23	Sequence 23, Appl	c1221	10.4	80.0	573	4	US-09-604-287A-436	Sequence 436, App
c1149	10.4	80.0	469	2	US-08-469-219-23	Sequence 23, Appl	c1222	10.4	80.0	573	4	US-09-834-759-436	Sequence 436, App
c1150	10.4	80.0	469	3	US-09-228-152-23	Sequence 23, Appl	c1223	10.4	80.0	576	4	US-09-765-298A-23	Sequence 23, Appl
c1151	10.4	80.0	469	4	US-09-621-976-13388	Sequence 13388, A	c1224	10.4	80.0	579	4	US-09-387-341-191	Sequence 191, App
c1152	10.4	80.0	471	4	US-09-621-976-3168	Sequence 3168, App	c1225	10.4	80.0	581	4	US-09-389-681-215	Sequence 215, App
c1153	10.4	80.0	475	4	US-08-956-171E-3621	Sequence 3621, App	c1226	10.4	80.0	581	4	US-09-620-405B-215	Sequence 215, App
c1154	10.4	80.0	476	4	US-09-621-976-13625	Sequence 13625, A	c1227	10.4	80.0	581	4	US-09-339-338-215	Sequence 215, App
c1155	10.4	80.0	475	4	US-09-621-976-13256	Sequence 13256, A	c1228	10.4	80.0	581	4	US-09-433-826B-215	Sequence 215, App
c1156	10.4	80.0	485	1	US-07-989-845-29	Sequence 29, Appl	c1229	10.4	80.0	581	4	US-09-604-287A-215	Sequence 215, App
c1157	10.4	80.0	485	1	US-07-989-844-13	Sequence 13, Appl	c1230	10.4	80.0	581	4	US-09-834-759-215	Sequence 215, App
c1158	10.4	80.0	485	1	US-08-110-663-1	Sequence 1, Appl	c1231	10.4	80.0	585	4	US-09-620-312D-46	Sequence 46, Appl
c1159	10.4	80.0	485	1	US-08-169-688-1	Sequence 1, Appl	c1232	10.4	80.0	586	4	US-09-280-116-231	Sequence 231, App
c1160	10.4	80.0	485	1	US-08-240-121-13	Sequence 13, Appl	c1233	10.4	80.0	588	3	US-09-328-111-397	Sequence 397, App
c1161	10.4	80.0	485	1	US-08-451-241-13	Sequence 13, Appl	c1234	10.4	80.0	597	4	US-09-543-681A-1799	Sequence 1799, App
c1162	10.4	80.0	485	1	US-08-110-664-1	Sequence 1, Appl	c1235	10.4	80.0	613	4	US-09-442-143A-6	Sequence 6, Appl
c1163	10.4	80.0	485	1	US-08-446-882-1	Sequence 1, Appl	c1236	10.4	80.0	622	4	US-09-621-976-2580	Sequence 2580, App
c1164	10.4	80.0	485	1	US-08-385-187A-1	Sequence 1, Appl	c1237	10.4	80.0	633	3	US-08-998-416-1115	Sequence 1115, App
c1165	10.4	80.0	485	1	US-08-470-108-1	Sequence 1, Appl	c1238	10.4	80.0	643	4	US-09-221-017B-711	Sequence 711, App
c1166	10.4	80.0	485	5	PCT-US93-11297-13	Sequence 13, Appl	c1239	10.4	80.0	647	4	US-09-439-313-308	Sequence 308, App
c1167	10.4	80.0	485	5	PCT-US93-11298-29	Sequence 29, Appl	c1240	10.4	80.0	647	4	US-09-352-616A-308	Sequence 308, App
c1168	10.4	80.0	485	4	US-09-252-931A-15541	Sequence 15541, A	c1241	10.4	80.0	647	4	US-09-232-149A-308	Sequence 308, App
c1169	10.4	80.0	487	4	US-09-621-976-17957	Sequence 17957, A	c1242	10.4	80.0	647	4	US-09-636-215-308	Sequence 308, App
c1170	10.4	80.0	488	4	US-09-621-976-142	Sequence 142, App	c1243	10.4	80.0	647	4	US-09-685-166A-308	Sequence 308, App
c1171	10.4	80.0	488	4	US-09-711-164-201	Sequence 201, App	c1244	10.4	80.0	647	4	US-09-688-489-308	Sequence 308, App
c1172	10.4	80.0	490	4	US-09-621-976-2862	Sequence 2862, App	c1245	10.4	80.0	662	1	US-07-807-043B-10	Sequence 10, Appl
c1173	10.4	80.0	490	4	US-09-621-976-3380	Sequence 3380, App	c1246	10.4	80.0	662	1	US-08-299-849B-10	Sequence 10, Appl
c1174	10.4	80.0	491	1	US-08-053-171-6	Sequence 6, Appl	c1247	10.4	80.0	662	2	US-08-142-368A-10	Sequence 10, Appl
c1175	10.4	80.0	495	4	US-09-309-487-15	Sequence 15, Appl	c1248	10.4	80.0	662	3	US-08-967-727-10	Sequence 10, Appl
c1176	10.4	80.0	495	4	US-09-967-808-15	Sequence 15, Appl	c1249	10.4	80.0	662	3	US-08-037-230B-10	Sequence 10, Appl
c1177	10.4	80.0	499	4	US-09-621-976-3130	Sequence 3130, App	c1250	10.4	80.0	662	4	US-09-583-850-10	Sequence 10, Appl
c1178	10.4	80.0	499	4	US-09-621-976-1586	Sequence 1586, App	c1251	10.4	80.0	662	4	US-09-579-197-10	Sequence 10, Appl
c1179	10.4	80.0	499	4	US-09-621-976-11073	Sequence 11073, A	c1252	10.4	80.0	662	4	US-09-404-026-10	Sequence 10, Appl
c1180	10.4	80.0	500	4	US-09-866-108A-15725	Sequence 15725, A	c1253	10.4	80.0	662	4	US-09-312-464-10	Sequence 10, Appl
c1181	10.4	80.0	500	4	US-09-866-108A-15733	Sequence 15733, A	c1254	10.4	80.0	663	4	US-09-134-000C-509	Sequence 509, App
c1182	10.4	80.0	501	4	US-09-621-976-17375	Sequence 17375, A	c1255	10.4	80.0	663	4	US-09-540-236-1843	Sequence 1843, App
c1183	10.4	80.0	507	4	US-09-216-393B-17	Sequence 17, Appl	c1256	10.4	80.0	672	2	US-08-190-199A-62	Sequence 62, Appl
c1184	10.4	80.0	512	2	US-08-481-658B-45	Sequence 45, Appl	c1257	10.4	80.0	678	1	US-08-998-416-1053	Sequence 1053, App
c1185	10.4	80.0	512	2	US-08-477-504A-45	Sequence 45, Appl	c1258	10.4	80.0	684	3	US-08-326-264-27	Sequence 27, Appl
c1186	10.4	80.0	512	2	US-08-486-756A-45	Sequence 45, Appl	c1259	10.4	80.0	696	4	US-09-543-681A-3953	Sequence 3953, App
c1187	10.4	80.0	512	2	US-08-485-862B-45	Sequence 45, Appl	c1260	10.4	80.0	697	1	US-08-468-347-25	Sequence 25, Appl
c1188	10.4	80.0	512	3	US-08-787-739-45	Sequence 45, Appl	c1261	10.4	80.0	697	1	US-08-467-389-25	Sequence 25, Appl
c1189	10.4	80.0	512	3	US-08-487-077A-45	Sequence 45, Appl	c1262	10.4	80.0	697	2	US-08-779-379-25	Sequence 25, Appl
c1190	10.4	80.0	512	3	US-08-485-863A-45	Sequence 45, Appl	c1263	10.4	80.0	697	2	US-08-469-219-25	Sequence 25, Appl
c1191	10.4	80.0	512	3	US-08-485-049D-45	Sequence 45, Appl	c1264	10.4	80.0	697	3	US-09-328-152-25	Sequence 25, Appl
c1192	10.4	80.0	512	3	US-09-178-115-45	Sequence 45, Appl	c1265	10.4	80.0	703	4	US-09-023-655-365	Sequence 365, App
c1193	10.4	80.0	512	3	US-09-177-776-45	Sequence 45, Appl	c1266	10.4	80.0	711	2	US-08-190-199A-64	Sequence 64, Appl
c1194	10.4	80.0	513	4	US-09-318-786-32	Sequence 32, Appl	c1267	10.4	80.0	711	4	US-09-489-039A-4083	Sequence 4083, App
c1195	10.4	80.0	515	4	US-09-404-879A-160	Sequence 160, App	c1268	10.4	80.0	717	2	US-07-956-399-3	Sequence 3, Appl



1269	10.4	80.0	721	2	US-08-224-591-15	Sequence 15, Appl	c1342	10.4	80.0	1029	4	US-09-463-451-23	Sequence 23, Appl
1270	10.4	80.0	721	2	US-08-926-789-15	Sequence 15, Appl	1343	10.4	80.0	1029	4	US-09-463-451-24	Sequence 24, Appl
1271	10.4	80.0	723	3	US-08-988-416-123	Sequence 123, Appl	1344	10.4	80.0	1031	2	US-08-978-404B-1	Sequence 1, Appl
c1272	10.4	80.0	726	4	US-08-621-976-3406	Sequence 3406, App	1345	10.4	80.0	1032	4	US-09-489-039A-4701	Sequence 4701, App
1273	10.4	80.0	733	2	US-08-234-591-17	Sequence 17, Appl	c1346	10.4	80.0	1033	2	US-08-933-750C-51	Sequence 51, Appl
1274	10.4	80.0	733	2	US-08-926-789-17	Sequence 17, Appl	c1347	10.4	80.0	1033	3	US-09-234-613-51	Sequence 51, Appl
1275	10.4	80.0	738	4	US-08-956-047-24	Sequence 24, Appl	1348	10.4	80.0	1038	3	US-09-120-853-1	Sequence 1, Appl
c1276	10.4	80.0	743	4	US-09-976-594-1121	Sequence 1121, App	c1349	10.4	80.0	1054	2	US-08-557-128-13	Sequence 13, Appl
c1277	10.4	80.0	752	3	US-08-818-112-2	Sequence 2, Appl	1350	10.4	80.0	1071	4	US-09-134-000C-3347	Sequence 3347, App
c1278	10.4	80.0	752	4	US-08-818-111-2	Sequence 2, Appl	c1351	10.4	80.0	1075	4	US-09-863-600A-173	Sequence 173, App
c1279	10.4	80.0	752	4	US-09-056-556-2	Sequence 2, Appl	1352	10.4	80.0	1086	1	US-08-818-163A-1	Sequence 1, Appl
c1280	10.4	80.0	752	4	US-09-072-996-2	Sequence 2, Appl	1353	10.4	80.0	1089	4	US-09-625-188-7	Sequence 7, Appl
c1281	10.4	80.0	752	4	US-09-072-967-2	Sequence 2, Appl	1354	10.4	80.0	1095	2	US-08-598-873-1	Sequence 1, Appl
c1282	10.4	80.0	756	4	US-09-506-286B-3	Sequence 3, Appl	1355	10.4	80.0	1095	3	US-08-605-430-1	Sequence 1, Appl
c1283	10.4	80.0	756	4	US-09-506-286B-6	Sequence 6, Appl	1356	10.4	80.0	1095	3	US-09-268-140-8	Sequence 8, Appl
1284	10.4	80.0	756	4	US-09-252-991A-15429	Sequence 15429, A	1357	10.4	80.0	1101	4	US-09-134-001C-1962	Sequence 1962, App
c1285	10.4	80.0	756	4	US-09-762-861B-3	Sequence 3, Appl	1358	10.4	80.0	1114	4	US-09-152-060-41	Sequence 41, Appl
c1286	10.4	80.0	756	4	US-09-762-861B-6	Sequence 6, Appl	1359	10.4	80.0	1121	6	5256558-7	Patent No. 5256558
c1287	10.4	80.0	756	4	US-10-065-133A-3	Sequence 3, Appl	1360	10.4	80.0	1123	4	US-09-152-060-15	Sequence 15, Appl
c1288	10.4	80.0	756	4	US-10-065-133A-6	Sequence 6, Appl	1361	10.4	80.0	1130	4	US-09-387-375-8	Sequence 8, Appl
c1289	10.4	80.0	764	4	US-09-016-434-782	Sequence 782, App	c1362	10.4	80.0	1130	4	US-09-786-240-22	Sequence 22, Appl
1290	10.4	80.0	764	4	US-08-979-847B-126	Sequence 126, App	1363	10.4	80.0	1143	3	US-09-276-531-103	Sequence 103, App
1291	10.4	80.0	777	3	US-09-385-982-531	Sequence 531, App	1364	10.4	80.0	1149	4	US-09-227-357-84	Sequence 84, Appl
1292	10.4	80.0	784	2	US-08-956-047-32	Sequence 32, Appl	c1365	10.4	80.0	1152	4	US-09-489-039A-4597	Sequence 4597, App
1293	10.4	80.0	793	2	US-08-956-047-29	Sequence 29, Appl	c1366	10.4	80.0	1158	4	US-09-489-039A-304	Sequence 304, App
1294	10.4	80.0	800	4	US-08-979-847B-127	Sequence 127, App	1367	10.4	80.0	1158	4	US-09-489-039A-4910	Sequence 4910, App
1295	10.4	80.0	807	3	US-08-998-416-337	Sequence 337, App	c1368	10.4	80.0	1162	2	US-08-726-306A-52	Sequence 52, Appl
c1296	10.4	80.0	829	4	US-09-620-312D-640	Sequence 640, App	c1369	10.4	80.0	1166	4	US-09-663-600A-79	Sequence 79, Appl
1297	10.4	80.0	834	3	US-09-176-657-6	Sequence 6, Appl	c1370	10.4	80.0	1171	4	US-08-956-171B-3539	Sequence 3539, App
1298	10.4	80.0	834	4	US-09-421-299-6	Sequence 6, Appl	1371	10.4	80.0	1188	4	US-09-491-577-39	Sequence 39, Appl
c1299	10.4	80.0	863	4	US-09-149-476-153	Sequence 153, App	1372	10.4	80.0	1197	5	PCT-US92-00282-12	Sequence 12, Appl
c1300	10.4	80.0	866	4	US-09-702-705-1824	Sequence 1824, App	c1373	10.4	80.0	1210	4	US-09-808-701A-1	Sequence 1, Appl
c1301	10.4	80.0	866	4	US-09-736-457-1824	Sequence 1824, App	1374	10.4	80.0	1218	4	US-09-543-681A-2852	Sequence 2852, App
c1302	10.4	80.0	866	4	US-09-671-325-1824	Sequence 1824, App	1375	10.4	80.0	1219	2	US-08-978-404B-7	Sequence 7, Appl
1303	10.4	80.0	867	4	US-09-305-856B-5	Sequence 5, Appl	1376	10.4	80.0	1241	4	US-09-620-312D-441	Sequence 441, App
1304	10.4	80.0	870	4	US-09-540-236-695	Sequence 695, App	1377	10.4	80.0	1253	3	US-08-980-832-35	Sequence 35, Appl
1305	10.4	80.0	876	4	US-09-149-476-315	Sequence 315, App	1378	10.4	80.0	1253	4	US-09-920-923B-35	Sequence 35, Appl
1306	10.4	80.0	884	4	US-09-235-451-22	Sequence 22, Appl	1379	10.4	80.0	1256	4	US-09-553-498-7	Sequence 7, Appl
c1307	10.4	80.0	902	4	US-09-149-476-169	Sequence 169, App	1380	10.4	80.0	1256	4	US-09-618-869-7	Sequence 7, Appl
1308	10.4	80.0	909	4	US-09-484-970B-111	Sequence 111, App	c1381	10.4	80.0	1260	1	US-07-866-979-3	Sequence 3, Appl
c1309	10.4	80.0	909	4	US-09-252-991A-15347	Sequence 15347, A	c1382	10.4	80.0	1260	2	US-08-466-906B-3	Sequence 3, Appl
c1310	10.4	80.0	910	3	US-08-456-200B-16	Sequence 16, Appl	c1383	10.4	80.0	1260	3	US-08-706-281A-3	Sequence 3, Appl
c1311	10.4	80.0	927	4	US-09-484-970B-12	Sequence 12, Appl	c1384	10.4	80.0	1260	3	US-09-201-746-3	Sequence 3, Appl
1312	10.4	80.0	941	4	US-09-312-283C-351	Sequence 351, App	c1385	10.4	80.0	1260	3	US-09-097-231-3	Sequence 3, Appl
1313	10.4	80.0	955	4	US-09-641-638-25	Sequence 25, Appl	c1386	10.4	80.0	1260	4	US-09-353-099-3	Sequence 3, Appl
1314	10.4	80.0	958	4	US-08-933-711B-10	Sequence 10, Appl	c1387	10.4	80.0	1269	1	US-07-701-935-27	Sequence 27, Appl
1315	10.4	80.0	973	4	US-09-976-594-539	Sequence 539, App	c1388	10.4	80.0	1269	4	US-09-149-476-143	Sequence 143, App
c1316	10.4	80.0	975	3	US-09-365-150-3	Sequence 3, Appl	1389	10.4	80.0	1272	4	US-09-206-344A-1	Sequence 1, Appl
c1317	10.4	80.0	975	3	US-09-365-150-3	Sequence 4, Appl	c1390	10.4	80.0	1275	4	US-09-134-001C-1039	Sequence 1039, App
1318	10.4	80.0	981	4	US-09-552-619-5	Sequence 5, Appl	1391	10.4	80.0	1290	4	US-09-107-532A-3539	Sequence 3539, App
1319	10.4	80.0	987	4	US-09-370-838-289	Sequence 289, App	1392	10.4	80.0	1291	4	US-09-904-615-17	Sequence 17, Appl
1320	10.4	80.0	993	3	US-08-969-644-21	Sequence 21, Appl	1393	10.4	80.0	1292	4	US-09-904-615-61	Sequence 61, Appl
1321	10.4	80.0	993	3	US-08-444-189-21	Sequence 21, Appl	c1394	10.4	80.0	1292	4	US-08-973-005A-1	Sequence 1, Appl
1322	10.4	80.0	993	3	US-08-468-544-21	Sequence 21, Appl	c1395	10.4	80.0	1292	4	US-09-489-039A-4948	Sequence 4948, App
1323	10.4	80.0	1000	4	US-09-023-655-1428	Sequence 1428, App	c1396	10.4	80.0	1296	4	US-09-149-476-230	Sequence 230, App
c1324	10.4	80.0	1001	4	US-09-671-317-285	Sequence 285, App	1397	10.4	80.0	1340	4	US-09-620-312D-521	Sequence 521, App
c1325	10.4	80.0	1001	4	US-09-671-317-331	Sequence 331, App	c1398	10.4	80.0	1347	4	US-09-016-434-1261	Sequence 1261, App
c1326	10.4	80.0	1001	4	US-09-671-317-332	Sequence 332, App	1399	10.4	80.0	1357	4	US-09-976-594-1038	Sequence 1038, App
c1327	10.4	80.0	1001	4	US-09-671-317-342	Sequence 342, App	c1400	10.4	80.0	1383	1	US-08-484-044-1	Sequence 1, Appl
1328	10.4	80.0	1014	2	US-08-888-497-31	Sequence 31, Appl	1401	10.4	80.0	1388	4	US-09-620-312D-519	Sequence 519, App
1329	10.4	80.0	1014	4	US-09-362-230-31	Sequence 31, Appl	c1402	10.4	80.0	1388	4	US-09-976-594-806	Sequence 806, App
1330	10.4	80.0	1014	4	US-09-702-705-1803	Sequence 1803, App	c1403	10.4	80.0	1405	2	US-08-555-723B-5	Sequence 5, Appl
1331	10.4	80.0	1014	4	US-09-736-457-1803	Sequence 1803, App	c1404	10.4	80.0	1405	2	US-09-123-465-5	Sequence 5, Appl
1332	10.4	80.0	1014	4	US-09-671-325-1803	Sequence 1803, App	1405	10.4	80.0	1407	4	US-09-328-352-551	Sequence 551, App
1333	10.4	80.0	1014	5	PCT-US94-07926-31	Sequence 31, Appl	c1406	10.4	80.0	1408	1	US-08-222-124-10	Sequence 10, Appl
1334	10.4	80.0	1016	4	US-09-220-132-17	Sequence 17, Appl	c1407	10.4	80.0	1408	2	US-08-842-657A-10	Sequence 10, Appl
c1335	10.4	80.0	1018	4	US-09-452-239-35	Sequence 35, Appl	c1408	10.4	80.0	1409	4	US-09-712-529-4	Sequence 4, Appl
c1336	10.4	80.0	1023	4	US-09-506-286B-1	Sequence 1, Appl	1409	10.4	80.0	1411	4	US-09-620-312D-535	Sequence 535, App
c1337	10.4	80.0	1023	4	US-09-506-286B-4	Sequence 4, Appl	c1410	10.4	80.0	1411	4	US-09-546-986A-3	Sequence 3, Appl
c1338	10.4	80.0	1023	4	US-09-762-861B-1	Sequence 1, Appl	c1411	10.4	80.0	1411	4	US-09-524-730-3	Sequence 3, Appl
c1339	10.4	80.0	1023	4	US-09-762-861B-4	Sequence 4, Appl	c1412	10.4	80.0	1414	1	US-08-222-124-9	Sequence 9, Appl
c1340	10.4	80.0	1023	4	US-10-065-133A-1	Sequence 1, Appl	c1413	10.4	80.0	1414	2	US-08-842-657A-9	Sequence 9, Appl
c1341	10.4	80.0	1023	4	US-10-065-133A-4	Sequence 4, Appl	c1414	10.4	80.0	1419	3	US-08-726-807B-1	Sequence 1, Appl

c1415 10.4 80.0 1419 3 US-09-258-367-1 Sequence 1, Appli  
c1416 10.4 80.0 1419 3 US-09-546-550-1 Sequence 1, Appli  
c1417 10.4 80.0 1419 3 US-09-431-414-1 Sequence 1, Appli  
c1418 10.4 80.0 1419 3 US-09-225-670-1 Sequence 1, Appli  
c1419 10.4 80.0 1419 3 US-09-431-349C-1 Sequence 1, Appli  
c1420 10.4 80.0 1420 4 US-09-227-357-21 Sequence 21, Appli  
c1421 10.4 80.0 1425 4 US-09-252-991A-4258 Sequence 4258, Ap  
c1422 10.4 80.0 1425 4 US-09-489-039A-3526 Sequence 3526, Ap  
c1423 10.4 80.0 1427 4 US-09-907-794A-152 Sequence 152, App  
c1424 10.4 80.0 1427 4 US-09-905-125A-152 Sequence 152, App  
c1425 10.4 80.0 1427 4 US-09-902-775A-152 Sequence 152, App  
c1426 10.4 80.0 1458 4 US-09-205-258-196 Sequence 196, App  
c1427 10.4 80.0 1467 1 US-08-176-620A-3 Sequence 3, Appli  
c1428 10.4 80.0 1467 1 US-08-463-862-3 Sequence 3, Appli  
c1429 10.4 80.0 1467 2 US-08-461-985-3 Sequence 3, Appli  
c1430 10.4 80.0 1467 2 US-08-458-887-3 Sequence 3, Appli  
c1431 10.4 80.0 1467 3 US-08-932-787B-3 Sequence 3, Appli  
c1432 10.4 80.0 1467 3 US-08-932-012C-3 Sequence 3, Appli  
c1433 10.4 80.0 1467 3 US-08-888-818C-3 Sequence 3, Appli  
c1434 10.4 80.0 1468 3 US-09-079-981-2 Sequence 2, Appli  
c1435 10.4 80.0 1475 4 US-09-976-594-583 Sequence 583, App  
c1436 10.4 80.0 1477 4 US-09-123-030-9 Sequence 9, Appli  
c1437 10.4 80.0 1484 1 US-08-485-618-102 Sequence 102, App  
c1438 10.4 80.0 1484 1 US-08-605-672-102 Sequence 102, App  
c1439 10.4 80.0 1484 2 US-08-482-293A-102 Sequence 102, App  
c1440 10.4 80.0 1484 2 US-08-943-363-102 Sequence 102, App  
c1441 10.4 80.0 1484 3 US-09-193-043-102 Sequence 102, App  
c1442 10.4 80.0 1484 4 US-09-688-307A-102 Sequence 102, App  
c1443 10.4 80.0 1484 4 US-09-350-259-102 Sequence 102, App  
c1444 10.4 80.0 1486 4 US-09-016-434-1262 Sequence 1262, App  
c1445 10.4 80.0 1497 4 US-09-489-039A-6405 Sequence 6405, Ap  
c1446 10.4 80.0 1503 4 US-09-254-465A-5 Sequence 5, Appli  
c1447 10.4 80.0 1506 1 US-08-149-105-2 Sequence 2, Appli  
c1448 10.4 80.0 1506 1 US-08-317-847-2 Sequence 2, Appli  
c1449 10.4 80.0 1506 4 US-09-016-434-1170 Sequence 1170, Ap  
c1450 10.4 80.0 1519 1 US-08-225-477B-2 Sequence 2, Appli  
c1451 10.4 80.0 1519 1 US-08-225-477B-2 Sequence 2, Appli  
c1452 10.4 80.0 1519 5 PCT-US95-04353-2 Sequence 2, Appli  
c1453 10.4 80.0 1519 5 PCT-US95-04353-2 Sequence 2, Appli  
c1454 10.4 80.0 1522 3 US-09-413-574-1 Sequence 1, Appli  
c1455 10.4 80.0 1541 4 US-09-149-476-65 Sequence 65, Appli  
c1456 10.4 80.0 1549 4 US-09-206-344A-13 Sequence 13, Appli  
c1457 10.4 80.0 1557 4 US-09-023-655-1016 Sequence 520, App  
c1458 10.4 80.0 1562 4 US-09-620-312D-520 Sequence 134, App  
c1459 10.4 80.0 1565 4 US-09-149-476-134 Sequence 9, Appli  
c1460 10.4 80.0 1579 4 US-09-591-095-9 Sequence 8, Appli  
c1461 10.4 80.0 1583 3 US-08-976-255-8 Sequence 19, Appli  
c1462 10.4 80.0 1587 4 US-09-010-147B-19 Sequence 19, Appli  
c1463 10.4 80.0 1590 4 US-09-369-247-14 Sequence 2, Appli  
c1464 10.4 80.0 1590 4 US-09-381-656-2 Sequence 851, App  
c1465 10.4 80.0 1590 4 US-09-976-594-851 Sequence 1059, Ap  
c1466 10.4 80.0 1594 4 US-09-016-434-1059 Sequence 3, Appli  
c1467 10.4 80.0 1598 3 US-08-785-420-3 Sequence 1, Appli  
c1468 10.4 80.0 1609 4 US-09-597-771-1 Sequence 2, Appli  
c1469 10.4 80.0 1611 3 US-08-909-742-2 Sequence 2, Appli  
c1470 10.4 80.0 1611 3 US-09-412-289-2 Sequence 1, Appli  
c1471 10.4 80.0 1613 4 US-09-387-375-1 Sequence 1, Appli  
c1472 10.4 80.0 1615 3 US-08-308-814-1 Sequence 26, Appli  
c1473 10.4 80.0 1638 4 US-08-591-095-26 Sequence 523, App  
c1474 10.4 80.0 1639 4 US-09-976-594-523 Sequence 9, Appli  
c1475 10.4 80.0 1641 3 US-08-705-771-9 Sequence 68, Appli  
c1476 10.4 80.0 1641 4 US-09-417-540-9 Sequence 68, Appli  
c1477 10.4 80.0 1643 2 US-08-933-750C-68 Sequence 68, Appli  
c1478 10.4 80.0 1643 3 US-08-234-613-68 Sequence 1, Appli  
c1479 10.4 80.0 1645 2 US-08-461-812-1 Sequence 1, Appli  
c1480 10.4 80.0 1645 4 US-09-371-705-1 Sequence 17, Appli  
c1481 10.4 80.0 1651 4 US-09-484-970B-17 Sequence 1, Appli  
c1482 10.4 80.0 1664 3 US-09-339-993-1 Sequence 22, Appli  
c1483 10.4 80.0 1665 4 US-09-300-958A-22 Sequence 74, Appli  
c1484 10.4 80.0 1677 4 US-09-154-750A-74 Sequence 27, Appli  
c1485 10.4 80.0 1679 1 US-08-117-965-27 Sequence 6, Appli  
c1486 10.4 80.0 1686 4 US-09-439-261-6 Sequence 6, Appli  
c1487 10.4 80.0 1686 4 US-09-227-613-6 Sequence 6, Appli

c1488 10.4 80.0 1687 1 US-08-656-984A-33 Sequence 33, Appli  
c1489 10.4 80.0 1694 1 US-08-698-551-9 Sequence 9, Appli  
c1490 10.4 80.0 1694 1 US-08-602-228-9 Sequence 9, Appli  
c1491 10.4 80.0 1694 2 US-08-494-440B-9 Sequence 9, Appli  
c1492 10.4 80.0 1694 2 US-08-533-901B-9 Sequence 9, Appli  
c1493 10.4 80.0 1694 2 US-08-839-032A-9 Sequence 9, Appli  
c1494 10.4 80.0 1694 2 US-08-839-031A-9 Sequence 9, Appli  
c1495 10.4 80.0 1694 4 US-09-185-258C-9 Sequence 9, Appli  
c1496 10.4 80.0 1694 5 PCT-US95-1272A-9 Sequence 9, Appli  
c1497 10.4 80.0 1700 4 US-09-833-381-1885 Sequence 1885, Ap  
c1498 10.4 80.0 1705 4 US-09-205-258-106 Sequence 106, App  
c1499 10.4 80.0 1718 4 US-09-355-214-6 Sequence 6, Appli  
1500 10.4 80.0 1720 4 US-09-148-545-53 Sequence 53, Appli

## ALIGNMENTS

RESULT 1  
US-08-520-933-1 ; Sequence 1, Application US/08520933  
; Patent No. 5981194  
; GENERAL INFORMATION:  
; APPLICANT: Jefferies, Wilfred A.  
; APPLICANT: McGeer, Patrick L.  
; APPLICANT: Rothenberger, Sylvia  
; APPLICANT: Food, Michael R.  
; APPLICANT: Yamada, Tatsuo  
; APPLICANT: Kennard, Malcolm  
; TITLE OF INVENTION: Use of p97 and Iron Binding Proteins  
; TITLE OF INVENTION: as Diagnostic and Therapeutic Agents  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bereskin & Parr  
; STREET: 40 King Street West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5H 3Y2  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/520,933  
; FILING DATE: August 31, 1995  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Shona S. McDiarmid  
; REGISTRATION NUMBER: 38,798  
; REFERENCE/DOCKET NUMBER: 7685-006  
; TELEPHONE: 416-364-7311  
; TELEFAX: 416-361-1398  
; TELEX: 06-23115  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2368 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHETICAL: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 61..117  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 118..2274  
; US-08-520-933-1

Query Match 100.0% Score 13; DB 2; Length 2368;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGGAGCT 13  
Db 1843 AGGTCAGGAGCT 1855

RESULT 2  
US-09-285-040-1  
; Sequence 1, Application US/09285040  
; Patent No. 6455494  
; GENERAL INFORMATION:  
; APPLICANT: Jefferies, Wilfred A.  
; APPLICANT: McGeer, Patrick L.  
; APPLICANT: Rothenberger, Sylvia  
; APPLICANT: Food, Michael R.  
; APPLICANT: Yamada, Tatsuo  
; APPLICANT: Kennard, Malcolm  
; TITLE OF INVENTION: Use of p97 and Iron Binding Proteins  
; TITLE OF INVENTION: as Diagnostic and Therapeutic Agents  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bereskin & Parr  
; STREET: 40 King Street West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5H 3Y2  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/285,040  
; FILING DATE: 01-APR-1999  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Gravelle, Micheline  
; REGISTRATION NUMBER: 40,261  
; REFERENCE/DOCKET NUMBER: 7685-032  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 416-364-7311  
; TELEFAX: 416-361-1398  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2368 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; HYPOTHETICAL: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 61..117  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 118..2274  
; US-09-285-040-1

Query Match 100.0%; Score 13; DB 4; Length 2368;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGGAGCT 13  
Db 1843 AGGTCAGGAGCT 1855

RESULT 3  
US-09-285-040-1  
; Sequence 1, Application US/09285040  
; Patent No. 6455494  
; GENERAL INFORMATION:  
; APPLICANT: Jefferies, Wilfred A.  
; APPLICANT: McGeer, Patrick L.  
; APPLICANT: Rothenberger, Sylvia  
; APPLICANT: Food, Michael R.  
; APPLICANT: Yamada, Tatsuo  
; APPLICANT: Kennard, Malcolm  
; TITLE OF INVENTION: Use of p97 and Iron Binding Proteins  
; TITLE OF INVENTION: as Diagnostic and Therapeutic Agents  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bereskin & Parr  
; STREET: 40 King Street West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5H 3Y2  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/285,040  
; FILING DATE: 01-APR-1999  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Gravelle, Micheline  
; REGISTRATION NUMBER: 40,261  
; REFERENCE/DOCKET NUMBER: 7685-032  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 416-364-7311  
; TELEFAX: 416-361-1398  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2368 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; HYPOTHETICAL: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 61..117  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 118..2274  
; US-09-285-040-1

Query Match 100.0%; Score 13; DB 4; Length 2368;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGGAGCT 13  
Db 1843 AGGTCAGGAGCT 1855

RESULT 4  
US-08-041-538-1/c  
; Sequence 1, Application US/08041538  
; Patent No. 5385831  
; GENERAL INFORMATION:  
; APPLICANT: Mulvihill, Eileen R  
; APPLICANT: Hagen, Frederick S  
; APPLICANT: Houamed, Khaled M  
; APPLICANT: Almers, Wolfhard  
; TITLE OF INVENTION: G PROTEIN COUPLED GLUTAMATE  
; TITLE OF INVENTION: RECEPTORS  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend  
; STREET: Stuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94105  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/041,538  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/648,481  
; FILING DATE:  
; APPLICATION NUMBER: US 07/626,806  
; FILING DATE: 12-DEC-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 13952-6-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 206-467-9600  
; TELEFAX: 206-623-6793  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4300 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; ORIGINAL SOURCE:

APPLICANT: BROWN, J OSEPH P.; ESTIN, CHARLES D.; FLOWMAN, GREGORY  
; D.HELLSTROM, KARL E.; ROSE, TIMOTHY M.; HELLSTROM, INGEGARD;  
; PURCHIO, ANTHONY F.; HU, SHIU-LOK; PENNATHUR, SRIDHAR  
; TITLE OF INVENTION: RECOMBINANT VIRUSES ENCODING THE HUMAN  
; MELANOMA-ASSOCIATED ANTIGEN  
; NUMBER OF SEQUENCES: 6  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/7230  
; FILING DATE: 27-JAN-1987  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 827,313  
; FILING DATE: 07-FEB-1986  
; SEQ ID NO: 1:  
; LENGTH: 2368  
5262177-1

Query Match 100.0%; Score 13; DB 6; Length 2368;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGGAGCT 13  
Db 1843 AGGTCAGGAGCT 1855

ORGANISM: Rattus norvegicus  
TISSUE TYPE: Cerebellum  
IMMEDIATE SOURCE:  
CLONE: 45-A  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 377..3973  
OTHER INFORMATION:  
US-08-041-538-1

Query Match 100.0%; Score 13; DB 1; Length 4300;  
Best Local Similarity 100.0%; Pred. NO. 1.2e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 13  
Db 27 AGGTCAGAGGACT 15

## RESULT 5

US-08-642-1/c  
Sequence 1, Application US/08463642  
Patent No. 5721107  
GENERAL INFORMATION:  
APPLICANT: Mulvihill, Eileen R  
APPLICANT: Hagen, Frederick S  
APPLICANT: Houamed, Khaled M  
APPLICANT: Almers, Wolfhard  
TITLE OF INVENTION: G PROTEIN COUPLED GLUTAMATE  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94105

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/463.642  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/672,007  
FILING DATE: 18-MAR-1991  
APPLICATION NUMBER: US 07/648,481  
FILING DATE: 30-JAN-1991  
APPLICATION NUMBER: 07/626,806  
FILING DATE: 12-DEC-1990  
NAME: Parmelee, Steven W  
ATTORNEY/AGENT INFORMATION:  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 13952-6-1-2

TELEPHONE: 206-467-9600  
TELEFAX: 206-623-6793  
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 4300 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
ORIGINAL SOURCE:  
ORGANISM: Rattus norvegicus  
TISSUE TYPE: Cerebellum  
IMMEDIATE SOURCE:  
CLONE: 45-A

FEATURE:  
NAME/KEY: CDS  
LOCATION: 377..3973  
OTHER INFORMATION:  
US-08-463-642-1

Query Match 100.0%; Score 13; DB 1; Length 4300;  
Best Local Similarity 100.0%; Pred. NO. 1.2e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 13  
Db 27 AGGTCAGAGGACT 15

## RESULT 6

US-08-455-602-1/c  
Sequence 1, Application US/08455602  
Patent No. 5747267  
GENERAL INFORMATION:  
APPLICANT: Mulvihill, Eileen R  
APPLICANT: Hagen, Frederick S  
APPLICANT: Houamed, Khaled M  
APPLICANT: Almers, Wolfhard  
TITLE OF INVENTION: G PROTEIN COUPLED GLUTAMATE  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94105

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/455,602  
FILING DATE: 31-MAY-1995  
CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/672,007  
FILING DATE: 18-MAR-1991  
APPLICATION NUMBER: US 07/648,481  
FILING DATE: 30-JAN-1991  
APPLICATION NUMBER: 07/626,806  
FILING DATE: 12-DEC-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W

REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 13952-6-1-2  
TELEPHONE: 206-467-9600  
TELEFAX: 206-623-6793  
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 4300 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
ORIGINAL SOURCE:  
ORGANISM: Rattus norvegicus  
TISSUE TYPE: Cerebellum  
IMMEDIATE SOURCE:  
CLONE: 45-A  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 377..3973  
OTHER INFORMATION:

## US-08-455-602-1

Query Match 100.0%; Score 13; DB 1; Length 4300;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 13  
| | | | | | | | | | | | | | |  
Db 27 AGGTCAGAGGACT 15

## RESULT 7

US-08-465-157-1/c  
; Sequence 1, Application US/08465157  
; Patent No. 5869609  
; GENERAL INFORMATION:  
; APPLICANT: Mulvihill, Eileen R  
; APPLICANT: Hagen, Frederick S  
; APPLICANT: Houamed, Khaled M  
; APPLICANT: Almers, Wolfhard  
; TITLE OF INVENTION: G PROTEIN COUPLED GLUTAMATE  
; TITLE OF INVENTION: RECEPTORS  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend  
; STREET: Steuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94105

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/465,157  
; FILING DATE:

CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/041,538  
; FILING DATE:  
; APPLICATION NUMBER: US/07/648,481  
; FILING DATE:  
; APPLICATION NUMBER: US/07/626,806  
; FILING DATE: 12-DEC-1990

ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 13952-6-1  
; TELEPHONE: 206-467-9600  
; TELEFAX: 206-623-6793

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 4300 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cdna

ORGANISM: Rattus norvegicus

TISSUE TYPE: Cerebellum

IMMEDIATE SOURCE:

CLONE: 45-A

FEATURE:

NAME/KEY: CDS

LOCATION: 377..3973

OTHER INFORMATION:

US-08-465-157-1

Query Match 100.0%; Score 13; DB 2; Length 4300;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 AGGTCAGAGGACT 13  
| | | | | | | | | | | | | | |  
Db 27 AGGTCAGAGGACT 15

## RESULT 8

PCT-US91-09422-1/c  
; Sequence 1, Application PC/TUS9109422  
; GENERAL INFORMATION:  
; APPLICANT: Mulvihill, Eileen R.  
; APPLICANT: Hagen, Frederick S.  
; APPLICANT: Houamed, Khaled M.  
; APPLICANT: Almers, Wolfhard  
; TITLE OF INVENTION: G PROTEIN-COUPLED GLUTAMATE RECEPTORS  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend  
; STREET: One Market Plaza, Steuart Street Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105-1492

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US91/09422  
; FILING DATE: 19911212

CLASSIFICATION: 435

PRIOR APPLICATION DATA: US 07/672,007

APPLICATION NUMBER: 18-MAR-1991

FILING DATE: 18-MAR-1991

PRIOR APPLICATION DATA: US 07/648,481

APPLICATION NUMBER: US 07/626,806

FILING DATE: 12-DEC-1990

ATTORNEY/AGENT INFORMATION:

NAME: Parmelee, Steven W.

REGISTRATION NUMBER: 31,990

REFERENCE/DOCKET NUMBER: 13952-6PC

TELEPHONE: (206) 467-9600

TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 4300 base pairs

TYPE: NUCLEIC ACID

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cdna

IMMEDIATE SOURCE:

CLONE: 45-A

FEATURE:

NAME/KEY: CDS

LOCATION: 377..3973

PCT-US91-09422-1

Query Match 100.0%; Score 13; DB 5; Length 4300;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 13  
| | | | | | | | | | | | | | |  
Db 27 AGGTCAGAGGACT 15

## RESULT 9

PCT-US91-09422-16/c  
; Sequence 16, Application PC/TUS9109422  
; GENERAL INFORMATION:  
; APPLICANT: Mulvihill, Eileen R.  
; APPLICANT: Hagen, Frederick S.  
; APPLICANT: Houamed, Khaled M.  
; APPLICANT: Almers, Wolfhard  
; TITLE OF INVENTION: G PROTEIN-COUPLED GLUTAMATE RECEPTORS  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend  
; STREET: One Market Plaza, Steuart Street Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105-1492  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US91/09422  
; FILING DATE: 19911212  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/672,007  
; FILING DATE: 18-MAR-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/648,481  
; FILING DATE: 30-JAN-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/626,806  
; FILING DATE: 12-DEC-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W.  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 13952-6PC  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 467-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5236 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; IMMEDIATE SOURCE:  
; CLONS: SN23  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 627..3344  
PCT-US91-09422-16

Query Match 100.0%; Score 13; DB 5; Length 5236;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 13  
Db 277 AGGTCAGAGGACT 265

RESULT 10  
US-08-920-422-17  
; Sequence 17, Application US/08920422A  
; Patent No. 6255473  
; GENERAL INFORMATION:  
; APPLICANT: Vitek, Michael P.  
; APPLICANT: Mitsuda, No. 6255473iaki  
; APPLICANT: Roses, Allen D.  
; TITLE OF INVENTION: Presenilin-1 Gene Promoter

; FILE REFERENCE: VITEKPRESENILIN  
; CURRENT APPLICATION NUMBER: US/08/920,422A  
; CURRENT FILING DATE: 1997-08-29  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 48974  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-08-920-422-17

Query Match 100.0%; Score 13; DB 3; Length 48974;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 13  
Db 39031 AGGTCAGAGGACT 39043

RESULT 11  
US-09-963-137-97/c  
; Sequence 97, Application US/099631137  
; Patent No. 6596036  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, Finn S  
; APPLICANT: Sorensen, Annette B  
; APPLICANT: Hernandez, Javier Martin  
; APPLICANT: Nielsen, Anne A  
; APPLICANT: Moving, Helle  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR LYMPHOMA AND LEUKEMIA  
; FILE REFERENCE: A-70981/RMS/DCF  
; CURRENT APPLICATION NUMBER: US/09/963,137  
; CURRENT FILING DATE: 2001-09-24  
; PRIOR APPLICATION NUMBER: US 09/668,644  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: US 09/905,390  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 09/905,491  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 09/962,929  
; PRIOR FILING DATE: 2001-09-24  
; PRIOR APPLICATION NUMBER: US 09/962,854  
; PRIOR FILING DATE: 2001-09-24  
; PRIOR APPLICATION NUMBER: US 09/962,916  
; PRIOR FILING DATE: 2001-09-24  
; PRIOR APPLICATION NUMBER: US 09/962,855  
; PRIOR FILING DATE: 2001-09-24  
; NUMBER OF SEQ ID NOS: 215  
; SOFTWARE: Patent In version 3.1  
; SEQ ID NO 97  
; LENGTH: 81  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-963-137-97

Query Match 92.3%; Score 12; DB 4; Length 81;  
Best Local Similarity 100.0%; Pred. No. 3.5e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGACT 12  
Db 27 AGGTCAGAGGACT 16

RESULT 12  
US-08-158-189-9  
; Sequence 9, Application US/08158189  
; Patent No. 5641497  
; GENERAL INFORMATION:  
; APPLICANT: Bevins, Charles L.  
; APPLICANT: Jones, Douglas E.  
; TITLE OF INVENTION: Gastrointestinal Defensin Peptides,

```

; TITLE OF INVENTION: cDNA Sequences, Methods for Production and Use Thereof
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and No. 5641497ris
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: U.S.A.
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/158,189
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/888,232
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnson, Philip S.
; REGISTRATION NUMBER: 27,200
; REFERENCE/DOCKET NUMBER: CH-0219
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 195 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; US-08-158-189-9
;
; Query Match 92.3%; Score 12; DB 1; Length 195;
; Best Local Similarity 100.0%; Pred. No. 3.7e+02;
; Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2 GGTCAGAGGACT 13
Db 9 GGTCAGAGGACT 20
;
; RESULT 13
; US-08-158-189-8
; Sequence 8, Application US/08158189
; Patent No. 5641497
; GENERAL INFORMATION:
; APPLICANT: Bevins, Charles L.
; APPLICANT: Jones, Douglas E.
; TITLE OF INVENTION: Gastrointestinal Defensin Peptides.
; TITLE OF INVENTION: cDNA Sequences, Methods for Production and Use Thereof
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and No. 5641497ris
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: U.S.A.
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/158,189
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/888,232
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnson, Philip S.
; REGISTRATION NUMBER: 27,200
; REFERENCE/DOCKET NUMBER: CH-0219
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 195 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; US-08-158-189-9
;
; Query Match 92.3%; Score 12; DB 1; Length 195;
; Best Local Similarity 100.0%; Pred. No. 3.7e+02;
; Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2 GGTCAGAGGACT 13
Db 9 GGTCAGAGGACT 20
;
; RESULT 14
; US-09-833-381-1978
; Sequence 1978, Application US/09833381
; Patent No. 6672186
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: No. 6672186el Nucleic Acid and Protein Homologs
; FILE REFERENCE: 5800-119
; CURRENT APPLICATION NUMBER: US/09/833,381
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 09/516,448
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 2050
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1978
; LENGTH: 513
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-833-381-1978
;
; Query Match 92.3%; Score 12; DB 4; Length 513;
; Best Local Similarity 100.0%; Pred. No. 3.9e+02;
; Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 1 AGGTCAGAGGAC 12
Db 233 AGGTCAGAGGAC 244
;
; RESULT 15
; US-09-404-879A-26/c
; Sequence 26, Application US/09404879A
; Patent No. 6468546
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; APPLICANT: Algate, Paul A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C2
; CURRENT APPLICATION NUMBER: US/09/404,879A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 393
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 26
; LENGTH: 541
; TYPE: DNA
; ORGANISM: Homo sapien

```

US-09-404-879A-26

Query Match 92.3%; Score 12; DB 4; Length 541;  
Best Local Similarity 100.0%; Pred. No. 4e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGTCAGAGGAC 12  
|||||  
Db 292 AGGTCAGAGGAC 281

Search completed: September 1, 2004, 02:34:25  
Job time : 107.817 secs